SUPPLEMENTAL AGREEMENT NO. 2

Contract Number: **\$\$8180-3/13-3**

Contract Title: SCADA Process Control System

Contractor: Emerson Process Management Power

& Water Solution, Inc.

200 Beta Drive

Pittsburgh, PA 15238

In accordance with the above referenced Contract ("Contract"), this Supplemental Agreement No. 2, when properly executed, becomes a part of the Contract effective upon execution, and sets forth the terms and conditions that are in addition to and/or modify those terms and conditions set forth in the Miami-Dade Contract No. SS8180-3/13-3, SCADA Process Control System by and between Emerson Process Management Power & Water Solutions, Inc. ("Emerson") and Miami-Dade County, a political subdivision of the State of Florida, having its principal office at 111 N.W. 1st Street, Miami, Florida 33128 ("County") and denominated as Contract No. SS8180-3/13-3 (the "Agreement"). In case of any conflict between the Agreement and this Supplemental Agreement No.2, the terms and conditions of this Supplemental Agreement shall control. Except as otherwise modified herein, all terms and conditions of the Agreement shall remain in force and effect.

Whereas the County and Emerson hereby revise and replace in its entirety Exhibit A, "Published List Prices, as attached hereto and incorporated herein. Pricing outlined within Exhibit A shall provide maintenance and support services for the existing System, in addition to any software licenses, parts, components, or professional services that may be required. All pricing outline is effective upon execution by the County and good thru the remainder of the contract term.

All terms, covenants and conditions of the original Contract and any supplemental agreements issued thereto shall remain in full force and effect, except to the extent herein amended.

Assistant County Attorney

IN WITNESS WHEREOF, the parties have executed this Supplemental Agreement to County Contract No. SS8180-3/13-3.

Contractor Miami-Dade County By: Name: Carlos A. Gimenez Name: Title: Title: Mayor Date: Date: Aftest: Attest: Secretary/Notary Clerk of the Board Côrporate Seal/Notary Approved as to form and legal sufficiency र्डेड्यूस्स् इंड्र



RTU - Emerson ControlWave Technical Services – List Prices

Data Sheet

The following table identifies list price for RTU Emerson Control Wave technical services provided by Emerson Process Management Power & Water Solutions, Inc (Emerson). The list price is current as of January 1, 2013 and is based on a one hour bases during normal business hours (8:00 a.m. to 5:00 p.m.). The rate does not include travel and living expenses, which will be billed at cost plus 10%.

Table 1: Technical Services List Prices

	List Price (per hour)
Field Engineer (per hour)	\$223.00
Field Engineer (per hour) Overtime (weekends and Saturday)	\$336.00
Field Engineer (per hour) Overtime (Sundays and Holidays	\$446.00

Emerson reserves the right to make periodic changes to these list prices and will provide notification in writing of such changes.

ControlWave PAC Base Unit

ControlWave PAC is a high performance RTU/PLC suitable for demanding in-plant measurement and control applications with a high concentration of local I/O. Hot-swap I/O maximizes system up time during maintenance operations and Hold Last maintains safe operating conditions in the event of a CPU failure. Single and Dual-Redundant internal power supply selection allows the proper level of reliability to meet the requirements of the application.



CW (PC850)

MODEL & SEG	SPEC	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
A		Base Housing	2.50-500. 9 74.	A A	garere i	
		None	UL.	0	\$0	Α
40	CWPAC	4 I/O slot panel mount chassis	UL	1	\$410	Α
10	CWPAC	8 I/O slot 19" rack mount chassis	UL	2	\$682	Α
		8 I/O slot panel mount chassis	UL	3	\$682	Α
Table 1		Internal Power Supply Sequencer Module			·欧尔克特·克	極援助
В		(PSSM) (Slot #1)	性類型 理证证	В	空空型	digital to
		None	UL	0	\$0	Α
		24 V input power (CE Approved)				
20	CWPAC	Standard PSSM with single power supply	UL	5	\$957	Α
		24 V input power (CE Approved)				
		Standard PSSM with dual power supply	UL	6	\$1,431	A
- CC	苏州第四个本	CPU Module (Slot #2) (Note 1) (Note 3)		CC		
		None		. 00	\$0	Α
		CPU with 64 MB SDRAM, 32 MB of Flash				
		1-ENET & 2-RS 232 (Non CE Approved)	UL	01	\$4,507	A
		CPU with 64 MB SDRAM, 32 MB of Flash				
		1-ENET & 3-RS 232 & 1-RS 485 (Note 2) (Non CE Approved)	UL	02	\$5,531	Α
		CPU with 64 MB of Flash, 32 MB of Flash				
		3-ENET & 3-RS 232 & 1-RS 485 (Note 2) (Non CE Approved)	UL	. 04	\$6,553	A
		CPU with 64 MB of Flash, 32 MB of Flash				_
30	CWPAC	3-ENET & 2-RS 232 & 2-RS 485 (Note 2) (Non CE Approved)	UL	05	\$6,965	Α
		CPU with 64 MB SDRAM, 32 MB of Flash				
		1-ENET & 2-RS 232 (CE Approved)	UL	- 08	\$4,581	A
		CPU with 64 MB SDRAM, 32 MB of Flash			25.542	.
		1-ENET & 3-RS 232 & 1-RS 485 (Note 2) (CE Approved)	UL	09	\$5,513	_A
		CPU with 64 MB of Flash, 32 MB of Flash				. [
		3-ENET & 3-RS 232 & 1-RS 485 (Note 2) (CE Approved)	UL	10	\$6,627	Α .
	ı	CPU with 64 MB of Flash, 32 MB of Flash			47.000	.
		3-ENET & 2-RS 232 & 2-RS 485 (Note 2) (CE Approved)	UL	11	\$7,039	A

Model Number: CW - <u>A</u> - <u>B</u> - <u>CC</u> - <u>DD</u> - <u>E</u> - <u>FF</u> <u>NN</u> - <u>OO</u> - <u>P</u>

Note 1: RS485 Comm port 3 is RJ45. RS 485 ports have 500 V isolation.

Note 2: The I/O Expansion Rack CPU interfaces to the main ControlWave Chassis CPU via Ethernet.

Note 3: If ordering a spare as a configured item, use the segment and selection code from above. Otherwise, refer to

ControlWave PAC spares and Accessories (page 8) for the specific part number.

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ControlWave PAC Base Unit (Cont.)

CW (PC850)

MODEL & SEG	1	DESCRIPTION	APPROVAL	SELECT	LIST	CAT.
CC		I/O Expansion Rack CPU (Note 3)				
		Comm CPU, 1-ENET & 2-RS 232 (Non CE Approved)	UL	06	\$1,517	Α
		Comm CPU, 3-ENET & 3-RS 232 & 1-RS 485 (Non CE				
30	CWPAC	Approved)	UL.	07	\$3,338	Α
		Comm CPU, 1-ENET & 2-RS 232 (CE Approved)	UL.	12	\$1,591	Α
		Comm CPU, 3-ENET & 3-RS 232 & 1-RS 485 (CE Approved)	UL	13	\$3,412	Α
DD.	4 4 14 15 TYP 12 907 (2-34) 7 52 15	Embedded Application	ing Frankling and a second	ĎD	Marie:	2.1000
39	CWPAC	None	UL	0	\$0	Α
É		CE Approval	TA GALLERY	an E ach	英雄的 第	
40	CWPAC	Without CE approval	UL	0	\$0	Α
40	CWFAC	CE foil shield and labels	UL/CE	1	\$0	Α
FF-NN		I/O Slot #3, through #10 (Note 1)		FF-NN		
	的情况。这次	Local Termination I/O Modules	484801894	157555		44.45
		None - Blank panel provided for empty slot	UL	00	\$0	Α
		16 AI, 4-20 mA Internally or Externally powered AI	UL	01	\$2,014	Α
		8 AI, 4-20 mA Internally or Externally powered Ai	UL	03	\$1,537	Α
		6 TC, B, R, S, J, E, K, T, C, N, + 10 mV	UL	05	\$1,564	Α
		4 RTD, 2, 3, or 4 wire platinum RTD	UL.	06	\$1,439	Α
	İ	8 AO, Without read back 4-20 mA	UL	07	\$2,253	Α
	CWPAC	32 DI, Selectable Int or Ext powered Dry Contact	UL	-09	\$888	Α
		16 DI, Selectable Int or Ext powered Dry Contact	UL	10	\$800	Α
		32 DO, Open Drain - 500 mA current capability	UL	11	\$951	Α
		16 DO Without read back,				
		Open Drain - 500 mA current capability	UL	- 12	\$820	Α
		6 UDI (HighSpeed Counter),	·			
		With selectable debounce @ (0-10 KHz) for low or High speed			l	
l		counters, Inputs 24 VDC only.	UL	14	\$820	Α
		Remote Termination I/O Modules with				有达维 证
50-120		Remote Terminal Blocks (No Fuses)			TEFER	44E) <u>E</u>
30-120		16 Al, 4-20 mA Internally or Externally powered Al	N/A	20	\$2,202	Α
		8 AI, 4-20 mA Internally or Externally powered AI	N/A	22	\$1,632	Α
		16 Al (Used with Redundant I/O system),	İ		1	
		1-5 V & ext. powered 4-20 (with 250 ohm on input)	N/A	23	\$1,732	A
		6 TC, B, R, S, J, E, K, T, C, N, + 10 mV	N/A	24	\$1,702	Α
·		4 RTD, 2, 3, or 4 wire platinum RTD	N/A	25	\$1,513	Α
		8 AO, without read back 4-20 mA	N/A	26	\$2,439	Α
		8 AO, with read back for Redundant I/O 4-20 mA	N/A	34	\$3,388	Α
1	CWPAC	32 DI, Selectable Int or Ext powered Dry Contact+	N/A	28	\$1,145	Α
ļ		32 DO, Open Drain - 500 mA current capability (Note 2)	N/A	30	\$1,208	Α
]		16 DO without read back,		7		I
]		Open Drain - 500 mA current capability (Note 2)	N/A	31	\$948	Α
	i	16 DO with read back for Redundant I/O,				
		Open Drain - 500 mA current capability (Note 2)	N/A	35	\$2,071	Α
		6 UDI (HighSpeed Counter),		1		
		With selectable debounce @ (0-10 KHz) for low or High speed				
		counters. Inputs 24 VDC only.	N/A	33	\$913	Α

Note 1: Biank I/O slot Plates are now supplied for unused siots.

Note 2: 3A maximum per 8 channel Remote Terminal Block.

Note 3: If ordering a spare as a configured item, use the segment and selection code from above. Otherwise, refer to ControlWave PAC spares and Accessories (page 8) for the specific part number.

ControlWave PAC Base Unit (Cont.)

CW (PC850)

MODEL	SPEC			T	LIST	Ī
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
FF-NN		I/O Slot #3 through #10		FF-NN	经外层要定	CARSE
511 441 V 4 W		Remote Termination I/O Modules with		5 4 5 E		
		Remote Terminal Blocks (With Fuses)				
		16 AI, 20 mA Internally or Externally powered AI	N/A	40	\$2,262	Α
	ĺ	8 Al, 4-20 mA Internally or Externally powered Al	N/A	42	\$1,662	Α
		16 AI (Used with Redundant I/O system),				
		1-5 V & ext. powered 4-20 (with 250 ohm on input)	N/A	43	\$1,715	Α
	i .	8 AO without read back, 4-20 mA	N/A	44	\$2,500	Α
		8 AO with read back, 4-20 mA				
50-120		(Use with Redundant I/O only)	N/A	60	\$3,447	Α
	CWPAC	32 DI, Selectable Int or Ext powered Dry Contact	N/A	46	\$1,391	Α
		16 DI, Selectable Int or Ext powered Dry Contact	N/A	47	\$1,051	Α
		32 DO, Open Drain - 500 mA current capability (Note 1)	N/A	48	\$1,417	Α
		16 DO, Open Drain - 500 mA current capability (Note 1)	N/A	49	\$1,053	Α
		16 DO with read back,				
		Open Drain - (Use with Redundant I/O only) (Note 1)	N/A	61	\$2,176	Α
		32 DI With 120 Vac Remote Terminal Block (NO FUSES)	N/A	70	\$1,707	Α
		32 DO With 120 Vac Block, 6Amp RELAY (NO FUSES)	N/A	71	\$1,698	Α
		Remote Termination I/O Module spares without				
		Remote Terminal Blocks				1955 S
		16 Al, 20 mA Internally or Externally powered Al	N/A	72	\$2,014	Α
		8 AI, 4-20 mA Internally or Externally powered AI	N/A	73	\$1,632	Α
		16 Al (Used with Redundant I/O system),				
		1-5 V & ext. powered 4-20 (with 250 ohm on input)	N/A	74	\$2,303	Α
		6 TC, B, R, S, J, E, K, T, C, N, + 10mV	N/A	75	\$1,702	Α
		4 RTD, 2, 3, or 4, wire platinum RTD	N/A	76	\$1,513	Α
		8 AO without read back, 4-20 mA	N/A	77	\$2,253	Α
50-120		32 DI, Selectable Int or Ext powered Dry Contact	N/A	78	\$888	Α
30-120	CWPAC	16 DI, Selectable Int or Ext powered Dry Contact	N/A	79	\$800	Α
	CVVIAC	32 DO, Open Drain - 500 mA current capability	N/A	80	\$951	Α
ł		16 DO, Open Drain - 500 mA current capability	N/A	81	\$820	Α
ŀ		6 UDI (HighSpeed Counter),				
		With selectable debounce @ (0-10 KHz) for low or High				
	Ì	speed counters. Inputs 24 VDC only.	N/A	82	\$820	Α
		8 AO with read back, 4-20 mA				
		(Use with Redundant I/O only)	N/A	83	\$3,111	Α .
İ	[16 DO with read back for Redundant I/O,				
		Open Drain - 500 mA current capability	N/A	84	\$1,943	Α
lote 1: 3A	maximum	per 8 channel Remote Terminal Block.				

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ControlWave PAC Base Unit (Cont.)

CW (PC850)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
00	法特技学	Remote Terminal Cable Selection		00	不知识的	是是語言
	对是高度	Number of ControlWave Micro Remote I/O Modules				(Line Edward)
:		None	N/A	00	\$0	Α
		1 Remote I/O Module	N/A	01	\$184	Α
		2 Remote I/O Module	N/A	02	\$366	Α
400		3 Remote I/O Module	N/A	03	\$549	Α
130	CWPAC	4 Remote I/O Module	N/A	04	\$732	Α
		5 Remote I/O Module	N/A	05	\$914	Α_
		6 Remote I/O Module	N/A	06	\$1,098	Α
		7 Remote I/O Module	N/A	07	\$1,281	Α
		8 Remote I/O Module	N/A	80	\$1,463	Α
P	不够现代	Remote Termination Length Selection		. A P		
		None	N/A	0	\$0	Α
		18 inch Cable	N/A	1	\$0	Α
190	CWPAC	39 inch Cable	N/A	2	\$0	Α
		6.5 foot Cable	N/A	3	\$0	Α _
		13 foot Cable	N/A	4	\$0	Α

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ControlWave Control & Communication Redundancy

The ControlWave redundant process control and communication system provides dual CPUs, dual power supplies, dual communication paths, and automatic switching between redundant components without any data loss.



It contains two CPUs: a primary CPU and a backup CPU. In the event of a primary CPU failure, the system automatically switches to the backup CPU. All process control and communication functions automatically switch to the backup CPU. A Dual-Redundant internal power supply option is available for even higher system reliability.

 CWREDCPU
 (PC 850)

 MODEL SPEC
 LIST

 & SEG SHEET
 DESCRIPTION
 APPROVAL SELECT PRICE CAT.

MODEL	1	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
& SEG	SHEET	DESCRIPTION Internal Power Supply Sequencer Module (Note 2)	ACENOVAL	SELEGI	FRICE	9-10-10-7-10-7-10-7-10-7-10-7-10-7-10-7-
- A -		<u> </u>			\$\$*555	Te: 0.640.82
		PSSM - 24V		_		
10		Single Power Supply module (CE Approved)	UL	3	\$1,911	A
.,		PSSM - 24V				
		Dual Power Supply module (CE Approved)	UL	4	\$2,858	Α
BC		Dual Redundant CPUs / Comm Port Configurations		BC		
20		CPU / (2) RS 232, (1) Ethernet	UL.	1	\$9,012	Α
20		CPU / (2) RS 232, (2) RS-485, (3) Ethernet	UL	12	\$13,927	Α
Ď	DAME OF	Chassis & Switcher Assembly		D		\$7.35 F
		With Cables, Rack Mount				
		(2) RS-232, (2) RS-485 (Standard)	UL	1	\$2,917	Α
		With Cables, Panel Mount				
	ĺ	(2) RS-232, (2) RS-485 (Standard)	UL	2	\$3,005	Α
20		With Cables, Rack Mount				
30		(2) RS-232, (2) RS-485				
		Extended Switchover	UL	3	\$2,917	Α
		With Cables, Panel Mount				
		(2) RS-232, (2) RS-485				
		Extended Switchover	UL	4	\$3,005	Α
.⊊ É .⊘		Conformal Coating				
40		With conformal coating	UL.	1	\$0	Α

Model Number: CWREDCPU - A - B C - D - E

Note 1: Redundant unit includes: Chassis, 2-PSSM, 2-CPU, Redundancy Switch Panel and serial communication cables from the CPUs to the Switch Panel. I/O is located in the Expansion Rack.

Note 2: CE Approved refers to EMC Emissions and Immunity. Refer to spec sheets for complete list of approvals.

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ControlWave PAC Redundant I/O System

The ControlWave redundant I/O system provides the highest level of system reliability. The system includes two identical ControlWave PAC units, with identical I/O and an I/O switch panel providing automatic switching between the two ControlWave units to provide redundant control, communication and I/O without any data loss. Analog and Digital outputs with unique read back circuitry ensure the backup system I/O is capable of assuming reliable control in the event of a primary on-line system failure.



CWREDIO

(PC 850)

MODEL	SPEC	Ţ		T .		LIST	
& SEG	SHEET		DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
- A		Chassis, PS & CPU (NOT C1, D2)	Switcher Assembly (Note 1)		A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·高麗家 ·超級官員
		None	Select for I/O switch spares	UL	0	\$0	Α
10	CWPAC:RDN	Switch Assy	(2) RS232 & (2) RS485 ports (Standard)	UL	3	\$5,347	А
		Switch Assy	(2) RS232 & (2) RS485 ports (Extend Switchover)	UL	4	\$5,347	Α
BC - PQ		I/O Switcher (Slot 1		agen (agen agen)	BC - PQ	對意思的意思	才選ま
	CWPAC:RDN	None	Empty Slot	UL	00	\$0	Α
	OVE AO.RDI	None	Empty slot with blank	UL	20	\$17	Α
		Local Terminations	Includes cables from I/O module to switcher		(Addaling		
	CWPAC:RDN	Digital Input	Internally or Externally	UL	01	\$2,511	Α
		Analog Input	4-20 mA input (Note 4)	UL	02	\$3,011	Α
1		Digital Output		UL	04	\$2,511	Α
		Analog Output	4-20 mA	UL	05	\$2,745	Α
	-	Analog Output With Read back	4-20 mA	UL	12	\$2,745	А
20 - 90		Digital Output With R		UL	15	\$2,511	Α
		Remote Terminations	Includes cables from I/O module to switcher				
		Digital Input	Internally or Externally	UL	06	\$2,511	Α
		Analog Input	4-20 mA input (Note 4)	UL	07	\$3,011	Α
		Digital Output		UL	09	\$2,511	Α
ļ	CWPAC:RDN		4-20 mA	UL	10	\$2,745	Α
ĺ	OVI NO.REN	Analog Output With Read back		UL	14	\$2,745	A
		Digital Output With Read back		UL	13	\$2,511	Α_
R		Conformal Coating					
100		With Conformal		UL.	1	\$0	Α_

Model Number: CWREDIO - A - B C - D E - F G - H ! - J K - L M - N O - P Q

Redundant unit includes: Chassis, 2-PSSM, Redundancy Switch Panel and serial communication cables from the CPUs to the Switch Panel.

Note 1: Only 8 slot base chassis are supported. Do not use 4 slot ControlWave chassis with I/O redundant systems.

Note 2: Use ONLY Remote Termination I/O modules in the ControlWave base controllers and I/O Expansion Racks.

Note 3: All I/O switchers support the double density I/O modules.

Note 4: Select 1 - 5V AI modules when ordering ControlWave I/O modules. Even the 4 - 20mA switch modules use 1 - 5V AI modules in the base controller chassis. Only the 4 - 20 mA inputs are externally sourced.

The AI modules in the ControlWave chassis must be a 1 - 5 V input modules for either the 1 - 5 V or 4 - 20 mA switchers. This means that field inputs can be either 1 - 5 V or 4 - 20 mA external sourced inputs, however the redundant switcher always provides a 1 - 5 V signal to the I/O card in the ControlWave Chassis.

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ControlWave PAC Parts & Accessories

(PC 854)

	DESCRIPTION	PART NO.	LIST PRICE	CAT.
Spare Parts		Carrette (1944)	Larvick and control	
Terminal Housing	Blue door assembly	396282-01-6	\$25	D1
Termination Block	Local Term	396286-01-1	\$98	D1
Termination Block	Remote DI	396381-01-4	\$98	D1
Termination Block	Remote DO	396381-02-2	\$98	D1
Termination Block	Remote Al/AO	396381-03-0	\$81	D1
Termination Block	Remote UDI	396381-04-9	\$98	D1
Door Labels		utangantan kalipatan Salaharan Sakatangan		ngan ang Nganggan
16 Al Label		396364-01-2	\$1	D1
8 Al Label		396377-01-7	\$1	D1
8 AO Label		396364-02-0	\$1	D1
4 AO Label		396377-02-5	. \$1	D1
32 DI Label		396364-03-9	\$1	D1
16 DI Label		396377-03-3	\$1	D1
32 DO Label		396364-04-7	\$1	D1
16 DO Label		396377-04-1	\$1	D1
12 UDI Label		396364-05-5	\$1	D1
6 UDI Label		396377-05-0	\$1	D1
Redundancy				
Chassis	Panel mount	396483-01-1	\$769	D1
Switcher	2 - RS 232 & 2 - RS 485 comm ports	396484-02-6	\$2,698	D1
Switcher ribbon cable	2 required	396487-01-7	\$144	D1
Red. Comm. Cable	2 - RS 232 & 2 - RS 485 ports	396978-01-0	\$742	D1
Miscellaneous				· 西海山市
Battery		395600-01-4	\$17	D1
Battery holder		395601-01-0	\$3	D1
CPU Key		395602-02-7	\$4	D1
250 ohm resistor	250 ohm (.01% , 1/4 w) (PC 863)	374664-01-3	\$23	D1
Comm Cable	PC to ControlWave cable	392843-01-3	\$98	D1
I/O Blank Panel	I/O slot cover panel	396379-01-0	\$25	D1
Redundant I/O Blank Panel	I/O switcher blank panel	396498-03-5	\$96	D1
RJ-45 Adapter	RJ-45 to 9-pin D connector	392844-01-0	\$75	D1
Remote Termination Relay	6 Amp relay for remote termination.	V2961105	\$10	D1
Remote Termination Fuse	1/8 Amp I/O point fuse for Phoenix remote term.	391707-04-3	\$5	D1
Remote Termination Fuse	1 Amp DO I/O point tuse for Phoenix remote term.	391707-06-0	\$5	D1
Remote Termination Fuse	2 Amp DI & DO module fuse for Phoenix remote term.	391707-05-1	\$5	D1
RTD sensor	TC cold junction compensation local & remote term	400128-01-2	\$45	D1

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ControlWave PAC Spares & Accessories (Cont.)

(PC 854/493)

			(PC 034/4	1901
	DESCRIPTION	PART NO.	LIST PRICE	CAT
CE Approval Kits (PC 854)	CPU port configuration model (Note 1)			TAKET
	1 - ENET & 2 - RS 232	396359019-CE-Kit	\$22	D1
	1 - ENET & 3 - RS 232 & 1 - RS 485	396359060-CE-Kit	\$22	D1
	1 - ENET & 2 - RS 232 & 2 - RS 485	396359078-CE-Kit	\$22	D1
	3 - ENET & 3 - RS 232 & 1 - RS 485	396359051-CE-Kit	\$22	D1
	3 - ENET & 2 - RS 232 & 2 - RS 485	396359124-CE-Kit	\$22	D1
CPU Modules				od vet veta va
Non CE Approved				
01	1 - ENET & 2 - RS 232	396359-21-3	\$4,436	Α
02	1 - ENET & 3 - RS 232 & 1 - RS 485	396359-26-4	\$5,444	Α
04	3 - ENET & 3 - RS 232 & 1 - RS 485	396359-25-6	\$6,450	Α
05	3 - ENET & 2 - RS 232 & 2 - RS 485	396359-32-9	\$6,855	Α
06	1 - ENET & 2 - RS 232	396458-17-3	\$1,493	Α
07	3 - ENET & 3 - RS 232 & 1 - RS 485	396458-18-1	\$3,285	Α
CE Approved			· · · · · · · · · · · · · · · · · · ·	
	1 - ENET & 2 - RS232			
08	(396359-21-3 + 396359019-CE-KIT)	CWCPU08	\$4,509	Α
	1 - ENET & 3 - RS232 & 1 RS485		· ·	
09	(396359-26-4 + 396359060-CE-KIT)	CWCPU09	\$5,517	Α
	3 - ENET & 3 - RS232 & 1 RS485		i	
10	(396359-25-6 + 396359051-CE-KIT)	CWCPU10	\$6,523	Α
	3 - ENET & 2 - RS232 & 2 RS485			
11	(396359-32-9 + 396359124-CE-KIT)	CWCPU11	\$6,928	Α
	CE Comm CPU & 1 - ENET & 2 - RS232		. ,	
12	(396458-17-3 + 396359019-CE-KIT)	CWCPU12	\$1,566	Α
	CE Comm CPU & 3 - ENET & 3 - RS232 & 1 RS485			
13	(396458-18-1 + 396359124-CE-KIT)	CWCPU13	\$3,358	Α
C - Series Not Class 1, Div 2 ,	Screw terminals			7 P
24 V, 5 A (120 VAC)	DIN rail (-25 to 70 deg. C) Not Class 1, Div 2	398036-00-4	\$262	D1
ower Supply/ Charger	Use with VCS5.241 or VCS10241		or and the	G.
Not G1, D2)	(Replaces Converter Concepts SYS-30009)			
2 V & 24 V, (24 Vdc Input)	DIN rail (-25 to 70 deg. C)	398036-01-2	\$724	D1
	Foil shield, labels and instructions.		<u>.</u>	

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ControlWave PAC Spares & Accessories (Cont.)

(PC 492)

	DESCRIPTION	PART NO.	LIST PRICE	CAT
Communication Port Devices	(PC 493)		PHOFAUT STE	
HART Device Interface (HDI)	Serial to FSK HART interface (PC 878)	392930-01-3	\$810	Α
	USB to Serial Adapter			
Digi Edgeport1	(Requires serial RTU Comm Cable)	V301-1001-15	\$184	D1
Phoenix Terminal Server	RS232 to Ethernet Conv. (0 to 55 deg. C)	V2744490	\$623	D1
Phoenix RS485 Surge Protector		397155-00-0	\$141	D1
	1200 baud 202T standalone modem			
IG202T PLM (Note 1)	100-240VAC, 10 - 48V DC	VIG202T	\$1,127	D1
	1200 baud 202T standalone modem			
IG202T-DC (Note 1)	10 - 48V DC	VIG202T-DC	\$1,095	D1
IG202T DIN mount kit	IG202T DIN Rail mounting kit	VIG202T-DIN	\$73	D1
Industrial Switches (PC 493)		a engrados des		
	4 port 10/100 Base-T switch + uplink			
4-Port Industrial Switch	(Replaces BB-GT-5ES-1)	VSLX-5ES-1	\$307	D1
	7 port 10/100 Base-T switch + uplink	, i		
8-Port Industrial Switch	(Replaces BB-GT-9ES-1)	VSLX-8ES-1	\$384	D1
	1-multimode ST & 4-RJ45			
4-Port Fiber Switch (Note 1)	(Replaces BB-GT-5ES-2ST)	VSLX-5ES-2ST	\$438	D1
Maple Systems (PC 492)			ENTER STATE	
LCD Displays		i kuritika		755
OIT 3175-A00 - 16 Key	4 Line X 20 Character 0-50 deg. C	395631-02-5	\$563	D1
OIT 3185-A00 - 24 Key	4 Line X 20 Character 0-50 deg. C	395631-03-3	\$593	D1
VFD Displays - All are Class 1,			recognization of a	(*)445 F.J. (*)
OIT 4175A-A00 - 16 Key	4 Line X 20 Char -10 to +65 deg. C	395631-08-4	\$863	D1
OIT 4185A-A00 - 24 Key	4 Line X 20 Char -10 to +65 deg. C	395631-09-2	\$899	D1
Cables			Salata Maria Salata	
OIT - Configuration & Comm.	PC & ControlWave to OIT (Note 2)	395632-01-3	\$68	D1
OIT - 33XX Comm cable	33XX to OIT only	395633-01-0	\$75	D1
Color Touch Screen Displays				12.00
HMI 5056N (Ethernet port)	5.6" color display, touch screen	VHMI5056N	\$825	D1
HMI 5070 TH (Ethernet port)	7" color display, touch screen	VHMI5070TH	\$1,035	D1
HMI 5104 TH (Ethernet port)	10" color display, touch screen	VHMI5104TH	\$2,535	D1
HMI 5121 X (Ethernet port)	12" color display, touch screen	VHMI5121X	\$2,685	D1
IMI Cables		a samés cualc	YAMADAY DUMAN.	1977E
IMI Config Cable	PC to Maple (Note 3)	V74310098	\$68	D1
IMI to CW Comm Cable	Maple To ControlWave comm cable (RS232)	V744601245	\$75	D1
Configuration Software CD (No				Wille.
DIT Series display	Required to develop OIT LCD displays	395634-01-6	\$112	D1
IMI Series display	Required to develop HMI displays	VEZWARE	\$112	D1
lote 1: Requires a 9 - pin serial			<u> </u>	-

Note 1: Requires a 9 - pin serial modem cable.

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Note 2: This cable is required for programming and communication.

Note 3: Required for programming & downloading to Maple.

Note 4: One CD required for programming any number of displays.

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ControlWave Ethernet I/O

The compact DIN-rail mount ControlWave Enternet I/O modules provide open connectivity through 10 Mbps and 38.4 KB serial RS 485. The wide range of module I/O configuration brings exceptional flexibility to network diversity. Each module is designed and rated for harsh industrial environments. And UL Approvals for CLASS1, Div. 2 HAZARDOUS INSTALLATIONS.



DESCRIPTION	PART NO.	LIST PRICE	CAT.
Ethernet I/O Modules			WAS TON
16 Al (4-20 mA)	BB-16Al2-H	\$1,272	D1
8 AI/4 AO	BB-8Al2-4AO2-H	\$1,272	D1
16 DI	BB-16DI2-H	\$724	D1
16 DO	BB-16DO2-H	\$797	D1
8 DI/8 DO	BB-8DI2-8DO2-H	\$797	D1
8 Al/8 DI	BB-8DI2-8AI2-H	\$951	D1
8 CNT, Up to 50 KHz	BB-8CNT-U	\$935	D1
8 Thermocouple / Instrumentation Al	BB-8INS-U	\$1,369	D1
4RTD/4 DI	BB-4RTD-4DI2-U	\$1,369	D1
Accessories			
Setup Module	BB-232-SETUP	\$306	D1
Software		(2) 对数据数据 (2) (2)	STANCE:
I/O Configuration Tools Included on the Bristol Software CD		\$0	D1
Note 1: The spares and replacement modules are not available. Please or	der the entire Ethernet m	nodule.	

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Effective Date: Oct 1, 2014

ControlWave Micro

ControlWave Micro is a high performance RTU/PLC ideally suited for remote area installations in harsh environments. It offers very low power consumption, a wide operating temperature range and compact footprint. The wide variety of flexible modular I/O and up to 11 serial and two Ethernet communication ports make ControlWave Micro extremely adaptable to virtually any in-plant or remote measurement and control application.



CWM (PC 853)

MODEL	SPEC	PERCEIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
& SEG	SHEET	DESCRIPTION	APPROVAL	A	PRICE	CAI.
Α		Base Housing (Note 4)	UL	0	\$0	A
		None	UL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ψU	— ^
		3 slot panel mount base	UL	1	\$399	Α
		PSSM, CPU & 1 slot for I/O, No Comm Exp			\$ 288	
10	420DS-5L	4 slot panel mount base	LILVATEV	2	\$444	А
		PSSM, CPU & 2 slots for Exp Comm or I/O	UL/ATEX	<u>2</u>	Ф ччч	
	Ī	8 slot panel mount base		Acres 19		
		PSSM, CPU, 2 slots for Exp Comm or I/O and 4 slots			4=45	
Thomas each thomas	en interes de notario estante de la con-	dedicated to I/O modules	UL/ATEX	3	\$519	A
В	ELONGE CARPALA No. 3-10-16	I/O Expansion Base (Note 4)		В	- 7	9-32-3-1-3V
		None .	UL	0	\$0	<u> </u>
20	420DS-5L	2 I/O slot panel mount exp base, Up to 2 I/O modules	UL	1	\$371	A
		4 I/O slot panel mount exp base, Up to 4 I/O modules	UL	2	\$409	Α
		8 I/O slot panel mount exp base, Up to 8 I/O modules	UL	3	\$484	Α
∵cc ⊢	24亿人	CPU Module (Slot #2) (Note 2) (Note 6)		CC		1000000
	420DS-5L		UL	00	\$0	Α
		Micro 33 CPU With Gas Calcs			使某类	244515KL
	420DS-5L	33MHz CPU/2M SR,64M SDR,16M Flash				
		0 - ENET & 2 - RS 232, & 1 RS 485 (Non CE Approved)	UL	01	\$1,349	A
	420DS-5L	33MHz CPU/2M SR,64M SDR,16M Flash				
	420D0-3L	0 - ENET & 2 - RS 232, & 1 RS 485 (CE Approved) (Note 5)	UL	11	\$1,397	Α
		Micro 33 CPU Without Gas Calcs		15.40		
	420DS-5L	33MHz CPU/2M SR,64M SDR,16M Flash			.	ŀ
30	420D3-3L	0 - ENET & 2 - RS 232, & 1 RS 485 (Non CE Approved)	UL	02	\$1,092	Α
30	420DS-5L	33MHz CPU/2M SR,64M SDR,16M Flash				
	42003-3L	0 - ENET & 2 - RS 232, & 1 RS 485 (CE Approved) (Note 5)	UL	12	\$1,140	Α
		Micro 150 CPU With Gas Calcs			學主義	计对对
Ī		150MHzCPU/2M SR, 64M SDR, 16M Flash				
		0 - ENET & 2 - RS 232 & 1 RS 485 (Non CE Approved)	UL	04	\$1,346	Α
		150MHzCPU/1M SR, 64M SDR, 16M Flash				
l		1 - ENET & 2 - RS 232 & 1 RS 485 (Non CE Approved)	UL/ATEX	05	\$1,752	Α
		150MHzCPU/2M SR, 64M SDR, 16M Flash				
		2 - ENET & 1 - RS 232 & 1 RS 485 (Non CE Approved)	UL	06	\$2,085	Α

Model Number: CWM - <u>A</u> - <u>B - CC - DD - E - F - G - HH - JJ - KK - LL - MM - NN - OO - PP - QQ - <u>RR - SS -</u> TT - <u>UU</u> - <u>VV</u> - <u>WW - X</u></u>

Note 1: One I/O Expansion Base allowed with 12-24 V System Controller. Up to 6 I/O modules maximum with 6-12VSC.

Note 2: 6-18V System Controller I/O Limit - Up to 6 I/O modules maximum (2 isolated I/O modules maximum).

Note 3: RS 485 port is non-isolated.

Note 4: Unused I/O slots 3-14 of configured ControlWave Micro model include blank I/O module fronts.

Note 5; CE Approved refers to EMC Emissions and Immunity. Refer to spec sheets for complete list of approvals.

Note 6: If ordering a spare as a configured item, use the segment and selection code from above. Otherwise, refer to

ControlWave Micro spares and Accessories (page 24) for the specific part number.

CWM				(PC 853))	
MODEL				LIST		ĺ
& SEG SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.	ı

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
		Micro 150 CPU With Gas Calcs (Note 6)		9 (20) 0 (45) 20 (4) 2 (4)		
		150MHzCPU/2M SR, 64M SDR, 16M Flash				
		0 - ENET & 2 - RS 232 & 1 RS 485 (CE Approved) (Note 5)	UL.	14	\$1,395	Α
	420DS-5L	150MHzCPU/1M SR, 64M SDR, 16M Flash				
	420D5-5L	1 - ENET & 2 - RS 232 & 1 RS 485 (CE Approved) (Note 5)	UL/ATEX	15	\$1,800	Α
	İ	150MHzCPU/2M SR, 64M SDR, 16M Flash				
		2 - ENET & 1 - RS 232 & 1 RS 485 (CE Approved) (Note 5)	UL	16	\$2,133	Α
	Karrykowa.	Micro 150 CPU Without Gas Calcs			美国共享	Marky.
		150MHzCPU/2M SR, 64M SDR, 16M Flash				
30	420DS-5L	1 - ENET & 2 - RS 232 & 1 RS 485 (Non CE Approved)	UL/ATEX	07	\$1,397	Α
30	420D0-0E	150MHzCPU/2M SR, 64M SDR, 16M Flash				
		2 - ENET & 1 - RS 232 & 1 RS 485 (Non CE Approved)	UL.	₽ 08	\$1,728	Α
		150MHzCPU/2M SR, 64M SDR, 16M Flash				
	420DS-5L	1 - ENET & 2 - RS 232 & 1 RS 485 (CE Approved) (Note 5)	UL/ATEX	17	\$1,445	Α
	42000-01	150MHzCPU/2M SR, 64M SDR, 16M Flash				
1		2 - ENET & 1 - RS 232 & 1 RS 485 (CE Approved) (Note 5)	UL	18	\$1,776	Α
		Micro Distributed I/O Expansion CPU				定到20%
	420DS-5L	Comm CPU 1 - ENET & 2 - RS 232, & 1 RS 485	UL	09	\$957	A
	420DS-5L	Comm CPU				
		1 - ENET & 2 - RS 232, & 1 RS 485 (CE Approved)	UL	19	\$1,005	Α
DD	计算数据数据	Embedded Application		DD 💮		- T
		None	UL 00 \$0		Α	
		Station Manager Version 3.02 Application (Note 4)	UL	01	\$1,534	Α
39	CWMICRO:SM	Station Manager XT Version 3.02 Application (Note 4)	UL	02	\$1,534	Α
		Station Manager 6-Run Application (Note 4)	UL	03	\$1,534	Α
		Station Manager 8-Run Application (Note 4)	UL	04	\$1,534	A
*		Station Manager XT 8-Run Application (Note 4)	UL	05	\$1,534	Α
, E		Internal Power Supply Module (Slot#1) (Note 1)	ingarang apa	S. E.		
		None	UL	0	\$0	Α
		6 - 18 V input power System Controller with display			AC70	
İ		interface, with wet-end interface (Non CE Approved)	UL	1	\$578	Α
		12 - 24 V Syst. Cont., w/o key lock & WD with display	III (ATEV	_	ф с -70	
	Ł	interface, no wet-end interface (Non CE Approved)	UL/ATEX	2	\$578	_ A
		12 - 24 V Syst. Cont., with key lock & WD with display	,,,	ا ء	#76A	_ ,
40		interface, no wet-end interface (Non CE Approved)	UL	3	\$760	A
		6 - 18 V input power System Controller with display		,	h-70	_ ,
	L.	interface, with wet-end interface (CE Approved)	UL	4	\$578	_ _ _
		12 - 24 V Syst. Cont., w/o key lock & WD with display	LILIATEV	5	¢570	,
		interface, no wet-end interface (CE Approved)	UL/ATEX	5	\$578	A
		12 - 24 V Syst. Cont., with key lock & WD with display	[۰	\$760	,
	i,	interface, no wet-end interface (CE Approved)	UL	6	\$760	Α

Note 1: 6-18V System Controller I/O Limit - Up to 6 I/O modules maximum (2 isolated I/O modules maximum).

Revision Date: Oct 24, 2014

Note 2: NA

Note 3: Blank I/O slot cover are supplied for unused slots in configured model.

Note 4: Station Manager Application suitable for U.S. Market Only.

Station Manager XT Version requires CWXFC Firmware 1.59 or CWGFC Firmware 2.29 or greater for external measurement.

Note 5: CE Approved refers to EMC Emissions and Immunity. Refer to spec sheets for complete list of approvals.

Note 6: If ordering a spare as a configured item, use the segment and selection code from above. Otherwise, refer to ControlWave Micro spares and Accessories (page 24) for the specific part number.

CWM

(PC 853)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
S F S		Approval	當英語的	F		
45	420DS-5L	Without CE approval	UL	0	\$0	Α
45	420D3-3L	CE approval; CE foil shield and labels	UL/CE	1	\$0	Α
∵ G		Display (Keypad buttons)	第三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	- G. j.		ATT THE
	-	None	UL	0	\$0	Α
		Display - 4 line X 20 character				
50	420DS-5L	2 buttons. Also includes 2' display cable	UL	1	\$444	Α
∦		Display/Keypad - 4 line X 20 character				
1		25 button keypad. Also includes 2' cable	UL	2	\$623	Α
HH & JJ		I/O & COMM Slot #3 & #4 (Note 3)		HH & JJ		
		Comm Expansion Module			y sar Calley	
		None - Blank panel provided for empty slot	UL	00	\$0	A
		2 Port Comm module, isolated RS 485				
		1 - RS232 & 1 - Isolated RS 485	UL	01	\$918	Α
		2 Port Comm module Dial-line modem,				
		1 - RS232 & 1 - Isolated RS 485 (Note 4) (For CE Approval)	UL	04	\$1,651	Α
60 & 70		4 Port Comm				
00 4 70		2 - RS232, 2 - isolated RS 485	UL/ATEX	05	\$1,086	Α
		2 Port Comm module, isolated RS 485		1		
		1 - RS232 & 1 - Isolated RS 485 (For CE Approval)	UL.	75	\$918	Α
		2 Port Comm module Dial-line modem,				
		1 - RS232 & 1 - Isolated RS 485 (Note 4) (For CE Approval)	UL	76	\$1,651	Α
		4 Port Comm				
		2 - RS232, 2 - isolated RS 485 (For CE Approval)	UL/ATEX	77	\$1,086	Α

Note 1: 6-18V System Controller I/O Limit - Up to 6 I/O modules maximum (2 isolated I/O modules maximum).

Note 2: NA

Note 3: Blank I/O slot cover are supplied for unused slots in configured model.

Note 4: CE Approved refers to EMC Emissions and Immunity.

Refer to spec sheets for complete list of approvals.

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(PC 853)

ControlWave Micro (Cont.)

CWM

MODEL					LIST	T
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
HH & JJ		I/O & COMM Slot #3 & #4	The state of the s	HH & JJ		性觀察
		Local Termination I/O Modules		T. W. Toler		, 14.4°
		Mixed 12 DI, 4 DO with LEDs		Spares as		
		Non-Isolated internally sourced dry contact	UL	06 ,	\$519	A
		Isolated, Mixed 12 DI, 4 DO with LEDs				
		Isolated, Int. or Ext. sourced dry contact	UL	07	\$634	Α
		16 DI with LEDs (24 VDC Input)				l
		Isolated, Int. or Ext. sourced dry contact	UL	08	\$585	Α
		16 DI with LEDs (12 VDC Input), Ext. sourced	UL	09.	\$634	Α
		8 DI with LEDs (120 - 240 VAC Input)				
		Isolated externally sourced voltage input	UL/ATEX	10	\$510	Α
		16 DO with LEDs; 1/2 Amp Open source output	IJ.	11	\$510	Α
		8 DO with LEDs (120 - 240 VAC Output) (Note 1)				
		6A Relay @ 120 VAC externally sourced	N/A	12	\$651	Α
		6 Al (Note 2) Externally sourced 1-5 V or 4-20 mA	UL	13	\$706	Α
60 & 70	420DS-5L	Mixed 6 AI, 2 AO (Note 2)				
	420DO-0L	Externally sourced 1-5 V or 4-20 mA	UL	14	\$931	Α
		Isolated AI, 8 inputs (180V CM), Int or Ext sourced 1-5 V				
		or 4-20 mA	UL	15	\$1,298	Α
		6 TC, B, R, S, J, E, K, T, C, N, <u>+</u> 10 mV	UL	16	\$1,207	Α
		4 RTD, 2, 3, or 4 wire platinum RTD	UL	17	\$1,207	Α
l		Isolated AO, 4 outputs				
		Int or Ext sourced 1-5 V or 4-20 mA	UL	- 18	\$1,022	Α
		4 HSC with LEDs, Hi / Low Speed Counters	UL	19	\$547	Α
ļ	[8 HART/BTI (Note 3)				
		HART, BTI, AI, AO. Int/Ext sourced Als	UL	20	\$2,048	Α
		Mixed 6 DIO, 4 AI, 2 HSC with LEDS				
		Dry contact DI, Ext. sourced 1-5V or 4-20mA	UL	21	\$883	Α
	Ì	Mixed 6 DIO, 4 AI, 2 HSC, 1 AO with LEDS				
		Dry contact DI, Ext. sourced 1-5V or 4-20mA	UL/ATEX	22	\$1,030	Α

Note 1: 8 Point 120VAC DI & DO Card cannot be used in the first slot of the I/O Expansion Chassis. 120VAC DI & DO modules are not class 1, Div 2 approved.

Note 2: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for distributed field power are provided on the I/O card for AOs only.

Note 3: Not supported in I/O Expansion chassis. Pass-through to AMS not supported. Maximum of two HART modules may be installed in a ControlWave Micro chassis, with 6 - 18V Internal Power Supply module. Order additional HART/BTI modules as spares when using 24V Power Supply module.

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CWM (PC 853)

MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
HH & JJ	an Kinger Har	I/O & COMM Sjot #3 & #4		HH & JJ	50.00000000000000000000000000000000000	AVAILE
		Remote Termination I/O Modules with		A ALEXANDE		500 X
	e de la composição de l	Remote Terminal Blocks (No Fuses)				
		Mixed 12 DI, 4 DO with LEDs				
		Non-Isolated internally sourced dry contact	N/A	23	\$698	Α
		16 DI with LEDs				
		Isolated, Int. or Ext. sourced dry contact	N/A	24	\$763	Α
İ		16 DO with LEDs, .5 Amp Open source output (Note 2)	N/A	25	\$670	Α
		6 Al (Note 1), Externally sourced 1-5 V or 4-20 mA	N/A	26	\$651	Α
		Mixed 6 AI, 2 AO				
		Externally sourced 1-5 V or 4-20 mA	N/A	27	\$1,059	Α
	420DS-5L	Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V				ĺ
		or 4-20 mA	N/A	28	\$1,427	Α
		6 TC, B, R, S, J, E, K, T, C, N, ± 10 mV	N/A	29	\$1,337	A
		4 RTD, 2, 3, or 4 wire platinum RTD	N/A	30	\$1,337	Α
		Isolated AO, 4 outputs				İ
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	31	\$1,152	Α
		4 HSC with LEDs, Hi / Low Speed Counters	N/A	32	\$678	Α
		8 HART/BTI				
		HART, BTI, AI, AO. Int/Ext sourced Als (Note 1)	N/A	33	\$2,179	_ <u>A</u>
60 & 70		Remote Termination I/O Modules with Remote Terminal			蒙古诗道	
	Apple of the second	Blocks (With Fuses)				
		16 DI with LEDs			****	
		Isolated, Int. or Ext. sourced dry contact	N/A	37	\$936	A
		16 DO with LEDs, .5 Amp Open source output (Note 2)	N/A	38	\$834	A
		6 AI Externally sourced 1-5 V or 4-20 mA	N/A	39	\$878	Α
		Mixed 6 Al, 2 AO (Note 1)	N/A	40	#4 404	
		Externally sourced 1-5 V or 4-20 mA	N/A	40	\$1,101	_A_
		Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V	N/A	41	\$1,469	Α
		or 4-20 mA Isolated AO, 4 outputs	19/74	' † !	\$1,400	-
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	44	\$1,193	A
		8 HART/BTI (Note 1)	14// 1		ψι,100	
		HART, BTI, AI, AO. Int/Ext sourced Als	N/A	46	\$2,220	Α
1		Mixed 6 DIO, 4 AI, 2 HSC, With LEDS	19//	40	φ2,220	
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	_{N/A}	47	\$1,494	Α
		Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, With LEDS	11177	-71	Ψ1,707	
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	48	\$1,642	Α
ĺ		16 DI With 120VAC Remote Terminal Block (NO FUSES)	N/A	60	\$1,154	$\frac{\Lambda}{A}$
•		16 DO With 120VAC Remote Terminal Block (NO 10323)	147		ψ1,107	$\stackrel{\wedge}{\longrightarrow}$
	I	6Amp RELAY (NO FUSES)	N/A	61	\$1,027	A
		OURING LANCE AND LANCE OF A STATE		<u> </u>	+ .,	

Note 1: Not supported in I/O Expansion chassis. Pass-through to AMS not supported. Maximum of two HART modules may be installed in a ControlWave Micro chassis, with 6 - 18V Internal Power Supply module. Order additional HART/BTI modules as spares when using 24V Power Supply module.

Revision Date: Oct 24, 2014

Note 2: 3A maximum per 8 channel remote terminal block.

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CWM

(PC 853)

MODEL	SPEC	DESCRIPTION	APPROVAL	SELECT	LIST	CAT.
& SEG	SHEET		AFFROVAL	SELECT	PRICE	CAI.
HH & JJ		Remote Termination I/O Module Spares without Remote		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Terminal Blocks		数10、1900年4月2日	778 V S-450	inargmost.
	1	Mixed 12 DI, 4 DO with LEDs				
		Non-Isolated internally sourced dry contact	N/A	62	\$519	Α
1		16 DI with LEDs				1
		Isolated, Int. or Ext. sourced dry contact	N/A	63	\$585	Α
		16 DO with LEDs, .5 Amp Open source output	N/A	64	\$510	Α
		6 Al (Note 1), Externally sourced 1-5 V or 4-20 mA	N/A	65	\$706	Α
		Mixed 6 Al, 2 AO (Note 1)		-		i i
		Externally sourced 1-5 V or 4-20 mA	N/A	66	\$932	Α_
	420DS-5L	Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V				
60 & 70		or 4-20 mA	N/A	67	\$1,299	Α
00 & 70		6 TC, B, R, S, J, E, K, T, C, N, ± 10 mV	N/A	68	\$1,207	Α
		4 RTD, 2, 3, or 4 wire platinum RTD	N/A	69	\$1,207	Α
		Isolated AO, 4 outputs				
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	70	\$1,022	Α
		4 HSC with LEDs, Hi / Low Speed Counters	N/A	71	\$547	Α
		8 HART/BTI (Note 2)				
		HART, BTI, AI, AO. Int/Ext sourced Als	N/A	72	\$2,048	Α
		Mixed 6 DIO, 4 AI, 2 HSC, With LEDS				
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	73	\$883	Α
		Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, With LEDS				
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	74	\$1,030	Α

Note 1: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for the field power are provided on the I/O card for AOs only.

Note 2: Not supported in I/O Expansion chassis. Pass-through to AMS not supported. Maximum of two HART modules may be installed in a ControlWave Micro chassis.

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MODEL	SPEC	DESCRIPTION	APPROVAL	SELECT	LIST	CAT.
& SEG	SHEET		APPROVAL		PRICE	GAT.
KK & LL		I/O Slot #5 & #6 None - Blank panel provided for empty slot	N/A	KK & LL 00	\$0	A
	420D3-3L	Local Termination I/O Modules	IN/A	00	φυ	A Same Call
	garges17.200g575.540	Mixed 12 DI, 4 DO with LEDs	2013-1892/HAN 9093			34,427,431%
		Non-Isolated internally sourced dry contact	UL,	06	\$519	Α
		Isolated, Mixed 12 DI, 4 DO with LEDs			· ·	
		Isolated, Int. or Ext. sourced dry contact	UL	07	\$634	Α
		16 DI with LEDs (24 VDC Input)				
		Isolated, Int. or Ext. sourced dry contact	UL	08	\$585	Α
		16 DI with LEDs (12 VDC Input), Ext. sourced	UL	09	\$634	Α
	•	8 DI with LEDs (120 - 240 VAC Input)				-
		Isolated externally sourced voltage input	UL/ATEX	10	\$510	Α
		16 DO with LEDs, 1/2 Amp Open source output	UL	11	\$510	Α
		8 DO with LEDs (120 - 240 VAC Output)				
		6A Relay @ 120 VAC externally sourced (Note 1)	N/A	12	\$651	Α
80 & 90		6 AI, Externally sourced 1-5 V or 4-20 mA (Note 2)	UL	13	\$706	Α
00 & 50	420DS-5L	Mixed 6 AI, 2 AO]		
	42000 OL	Externally sourced 1-5 V or 4-20 mA (Note 2)	UL	14	\$931	Α
		Isolated AI, 8 inputs (180 V CM)				
		Int or Ext sourced 1-5 V or 4-20 mA	UL	15	\$1,298	Α
		6 TC, B, R, S, J, E, K, T, C, N <u>+</u> 10 mV	UL	16	\$1,207	Α
	į.	4 RTD, 2, 3, or 4 wire platinum RTD	UL	17	\$1,207	_A_
		Isolated AO, 4 outputs				
ŀ		Int or Ext sourced 1-5 V or 4-20 mA	UL.	18	\$1,022	Α
		4 HSC with LEDs, Hi / Low Speed Counters	UL	19	\$547	Α
		8 HART/BTI			00.040	
]		HART, BTI, AI, AO. Int/Ext sourced Als (Note 3)	UL	20	\$2,048	Α
1	t t	Mixed 6 DIO, 4 AI, 2 HSC, with LEDS		24	0000	_
ļ		Dry contact DI, Ext. sourced 1-5V or 4-20mA Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, with LEDS	UL	21	\$883	Α
		Dry contact DI, Ext. sourced 1-5V or 4-20mA	UL/ATEX	22	\$1,030	А
<u> </u>		DIY COMEDI, EAL SOUNCED 1-04 OF 4-2011/A	ODATEA		φ1,030	

Note 1: 8 Point 120VAC DI & DO Card cannot be used in the first slot of the I/O Expansion Chassis. 120VAC DI & DO modules are not class 1, Div 2 approved.

Note 2: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for the field power are provided on the I/O card for AOs only.

Note 3: Not supported in I/O Expansion chassis. Pass-through to AMS not supported. Maximum of two HART modules may be installed in a ControlWave Micro chassis.

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(PC 853)

ControlWave Micro (Cont.)

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MODEL	SPEC		1		LIST	
& SEG	1	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
KK & LL		I/O Slot #5 & #6	温度 原序	KK & LL		y 75/hr.
	1611.75	Remote Termination I/O Modules with				
		Remote Terminal Blocks (No Fuses)	NG COMMETA NA			
		Mixed 12 DI, 4 DO with LEDs				
		Non-Isolated internally sourced dry contact	N/A	23	\$698	Α
		16 DI with LEDs, Isolated, Int. or Ext. sourced dry contact	N/A	24	\$763	Α
		16 DO with LEDs, .5 Amp Open source output (Note 3)	N/A	25	\$670	A
		6 AI, Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	26	\$651	Α
	ĺ	Mixed 6 AI, 2 AO				
		Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	27	\$1,059	Α
	420DS-5L	Isolated Al, 8 inputs (180 V CM), Int or Ext sourced 1-5 V or 4-				
i I		20 mA	N/A	28	\$1,427	Α
		6 TC; B, R, S, J, E, K, T, C, N, <u>+</u> 10 mV	N/A	29	\$1,337	Α
i i		4 RTD; 2, 3, or 4 wire platinum RTD	N/A	30	\$1,337	Α
		Isolated AO, 4 outputs				
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	31	\$1,152	Α
•		4 HSC with LEDs, Hi / Low Speed Counters	N/A	32	\$678	Α
	and the Williams Comme	8 HART/BTI HART, BTI, AI, AO. Int/Ext sourced Als (Note 2)	N/A	33	\$2,179	Α
80 & 90		Remote Termination I/O Modules with				
00 & 90		Remote Terminal Blocks (With Fuses)	Tru-Albertan			
		16 DI with LEDs, Isolated, Int. or Ext. sourced dry contact	N/A	37	\$936	Α
		16 DO with LEDs, .5 Amp Open source output (Note 3)	N/A	38	\$834	A
ŀ		6 AI, Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	39	\$878	Α
f		Mixed 6 AI, 2 AO				
		Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	40	\$1,101	Α
		Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V or 4-	1		1	
		20 mA	N/A	41	\$1,469	_A_
		Isolated AO, 4 outputs		l		
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	44	\$1,193	Α
1		8 HART/BTI HART, BTI, AI, AO. Int/Ext sourced Als (Note 2)	N/A	46	\$2,220	Α
		Mixed 6 DIO, 4 AI, 2 HSC, With LEDS				.
	· · · · · · · · · · · · · · · · · · ·	Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	47	\$1,494	_A_
1		Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, With LEDS		ļ		
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	48	\$1,642	Α
		16 DI With 120VAC Remote Terminal Block (NO FUSES)	N/A	60	\$1,154	<u> </u>
	- 1	16 DO With 120VAC Remote Terminal Block 6Amp RELAY				
		(NO FUSES)	N/A	61	\$1,027	_A

Note 1: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for the field power are provided on the I/O card for AOs only.

Note 2: Not supported in I/O Expansion chassis. Pass-through to AMS not supported. Maximum of two HART modules may be installed in a ControlWave Micro chassis.

Note 3: 3A maximum per 8 channel remote terminal block.

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(PC 853)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
MM-VV	SHEEL	COM & I/O Slot #7 through #16	AFFROVAL	MM - VV	PRICE PASSE LET	
191101 - 3 8	420DS-5L	None	N/A	00	\$0	A
	88 C 436	Local Termination I/O Modules	September 1984		4.541.55	F3050
ŀ	<u>a Marien era a Jegadan</u>	Mixed 12 DI, 4 DO with LEDs	(2 m) 2 m - 1 (2 m) 1 - 2 m - 2 m	no and Company of Control of the Control	C 25 C (5 C 4 C 4 C 4 C 7 C 7 C	o viscos vienego
		Non-Isolated internally sourced dry contact	UL	06	\$519	Α
		Isolated, Mixed 12 DI, 4 DO with LEDs				
		Isolated, Int. or Ext. sourced dry contact	UL	07	\$634	Α
		16 DI with LEDs (24 VDC Input)		·		
	į	Isolated, Int. or Ext. sourced dry contact	UL	08	\$585	Α
		16 DI with LEDs (12 VDC Input), Ext. sourced	UL	09	\$634	Α
		8 DI with LEDs (120 - 240 VAC Input)				
		Isolated externally sourced voltage input	UL/ATEX	10	\$510	Α
		16 DO with LEDs, 1/2 Amp Open source output	UL	11	\$510	A
		8 DO with LEDs (120-240 VAC Output)				
100 - 170		6A Relay @ 120 VAC externally sourced (Note 1)	UL	12	\$651	Α
175 - 178	420DS-5L	6 AI, Externally sourced 1-5 V or 4-20 mA (Note 2)	UL	13	\$706	Α
	12000 01	Mixed 6 AI, 2 AO				-
		Externally sourced 1-5 V or 4-20 mA (Note 2)	UL	14	\$931	A
		Isolated Al, 8 inputs (180 V CM)				
		Int or Ext sourced 1-5 V or 4-20 mA	UL	15	\$1,298	A
j		6 TC, B, R, S, J, E, K, T, C, N, ± 10 mV	UL	- 16	\$1,207	Α
		4 RTD, 2, 3, or 4 wire platinum RTD	UL	17	\$1,207	_A_
		Isolated AO, 4 outputs				_
		Int or Ext sourced 1-5 V or 4-20 mA	UL	18	\$1,022	Α
		4 HSC with LEDs, Hi / Low Speed Counters	UL	19	\$547	Α
		Mixed 6 DIO, 4 AI, 2 HSC, with LEDS				_
		Dry contact DI, Ext. sourced 1-5V or 4-20mA	UL	21	\$883	
		Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, with LEDS			04.000	.
		Dry contact DI, Ext. sourced 1-5V or 4-20mA	UL/ATEX	22	\$1,030	Α

Note 1: 8 Point 120VAC DI & DO Card cannot be used in the first slot of the I/O Expansion Chassis. 120VAC DI & DO modules are not class 1, Div 2 approved.

Note 2: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for the field power are provided on the I/O card for AOs only.

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MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
MM - VV		COM & I/O Slot #7 through #16		MM - VV		掌學是
	定對是認	Remote Termination I/O Modules with		了 是被称为他		
		Remote Terminal Blocks (No Fuses)	445 A 5485			Q.J-,,
		Mixed 12 DI, 4 DO with LEDs			****	
		Non-Isolated internally sourced dry contact	N/A	23	\$698	Α
	ł	16 DI with LEDs, Isolated, Int. or Ext. sourced dry contact	N/A	24	\$763	Α
		16 DO with LEDs, .5 Amp Open source output (Note 2)	N/A	25	\$670	Α
		6 AI, Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	26	\$651	Α
		Mixed 6 AI, 2 AO				
	420DS-5L	Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	27	\$1,059	Α_
	,2000 02	Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V]			
		or 4-20 mA	N/A	28	\$1,427	Α
		6 TC, B, R, S, J, E, K, T, C, N, ± 10 mV	N/A	29	\$1,337	Α
		4 RTD, 2, 3, or 4 wire platinum RTD	N/A	30	\$1,337	Α
		Isolated AO, 4 outputs				
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	31	\$1,152	Α
	75 JDC VX J V 19	4 HSC with LEDs, Hi / Low Speed Counters	N/A	32	\$678	Α
100 - 170		Remote Termination I/O Modules with				
175 - 178		Remote Terminal Blocks (With Fuses)	The state of the s		TEST.CS	
		16 DI with LEDs, Isolated, Int. or Ext. sourced dry contact	N/A	37	\$936	Α
		16 DO with LEDs, .5 Amp Open source output (Note 2)	N/A	38	\$834	Α
		6 AI, Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	39	\$878	Α
		Mixed 6 AI, 2 AO				_
		Externally sourced 1-5 V or 4-20 mA (Note 1)	N/A	40	\$1,101	Α
		Isolated AI, 8 inputs (180 V CM), Int or Ext sourced 1-5 V				
		or 4-20 mA	N/A	41	\$1,469	Α
	420DS-5L	Isolated AO, 4 outputs				.
		Int or Ext sourced 1-5 V or 4-20 mA	N/A	44	\$1,193	Α
		Mixed 6 DIO, 4 AI, 2 HSC, With LEDS	.,,,		* 4.404	
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA	N/A	47	\$1,494	_A_
		Mixed 6 DIO, 4 AI, 2 HSC, 1 AO, With LEDS	N/A	48	\$1,642	A
		Dry contact DI, Ext. sourced 1-5V or 4-20 mA				
j		16 DI With 120VAC Remote Terminal Block (NO FUSES)	N/A	60	\$1,154	<u> </u>
-		16 DO With 120VAC Remote Terminal Block 6Amp	N//0	6,	¢4 007	
		RELAY (NO FUSES)	N/A	61	\$1,027	Α

Note 1: The externally sourced Als on the mixed I/O cards require external wiring for the 24V device power. Terminal block connections for the field power are provided on the I/O card for AOs only.

Note 2: 3A maximum per 8 channel remote terminal block.

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CWM (PC 853)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
ww	ariema kanas Silaen seria	Remote Terminal Cable Selection		WW		
		Number of ControlWave Micro Remote I/O Modules				
		None	N/A	00	\$0	Α
1		1 Remote I/O Module	N/A	01	\$127	Α
		2 Remote I/O Module	N/A	02	\$254	Α
1		3 Remote I/O Module	N/A	03	\$380	Α
		4 Remote I/O Module	N/A	04	\$508	Α
		5 Remote I/O Module	N/A	05	\$636	Α
180		6 Remote I/O Module	N/A	06	\$763	Α
100	420DS-5L	7 Remote I/O Module	N/A	07	\$890	Α
		8 Remote I/O Module	N/A	80	\$1,018	Α
	,	9 Remote I/O Module	N/A	09	\$1,144	Α
		10 Remote I/O Module	N/A	10	\$1,271	Α
1		11 Remote I/O Module	N/A	11	\$1,399	Α
		12 Remote I/O Module	N/A	12	\$1,526	Α
		13 Remote I/O Module	N/A	13	\$1,652	Α
		14 Remote I/O Module	N/A	14	\$1,781	Α
Х		Remote Termination Length Selection		Χ		
		None	N/A	0	\$0	Α
] [18 inch Cable	N/A	1	\$0	Α
190	420DS-5L	39 inch Cable	N/A	2	\$0	Α
	ĵ	6.5 foot Cable	N/A	3	\$0	Α
		13 foot Cable	N/A	4	\$0	Α

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ControlWave PAC ControlWave Micro Parts and Accessories

(PC 851)

	DESCRIPTION		PART NO.	LIST PRICE	САТ
ControlWave PAC & Micro Re	mote Terminal Blocks	(NOT C1, D2) (Note 1 & 3)			aves.
(replacement fuses & relays o	an be found on parts p	oage)		(PC	851)
Terminal Block	ControlWave PAC Co	ntrolWave Micro		78.5.3	
4 point Al (No Fuse)	8 & 6 channel Al	6 & 8 channel AI, Mixed 6AI/2AO	•		
4 point RTD (No Fuse)	4 channel RTD	4 channel RTD			i
2 point AO (No Fuse)	4 & 8 channel AO	4 channel AO			
2 point HSC (No Fuse)	4 channel UDI	4 channel HSC	396391-01-0	\$62	D1
4 point Al (Fused)	8 & 16 channel Al	6 & 8 channel AI, Mixed 6AI/2AO			
2 point AO (Fuses)			396391-02-8	\$83	D1
8 point TC input block	6 channel TC	6 channel TC	396885-01-2	\$144	D1
8 point DI (No Fuse)	16 & 32 channel DI	8 & 16 channel DI, Mixed 12DI/4DO			
8 point DO (No Fuse) (Note 4)	16 & 32 channel DO	8 channel DO	396292-01-6	\$86	D1
8 point DI (Fused)	16 & 32 channel DI	16 channel DI	395622-02-6	\$169	D1
8 point DI ~ 120Vac (No Fuse)	8 & 16 ch DI (Int. pwr)	6 channel DI	395622-04-2	\$274	D1
8 point DO (Fused) (Note 4)	16 & 32 channel DO	16 channel DO	395622-03-4	\$158	D1
8 point 6A Relay DO (No Fuse)	16 & 32 channel DO	16 channel DO	395622-00-0	\$253	D1
16 point Mixed I/O (Fused)	NA	Mixed 6 DIO/4 AI/1 AO	400131-02-1	\$618	D1
Remote Terminal Blocks cable	es (1 cable required for	each terminal block; 2 cables for M	ix I/O terminal bl	ocks) (PC	
851)					
18" Term Cable			396389-04-0	\$46	D1
39" Term Cable			396389-01-5	\$48	D1
6.5 ft. Term Cable			396389-02-3	\$57	D1
13 ft. Term Cable			396389-03-1	\$70	D1
CE Approval Retrofit Kits (PC	854)				3.3
CPU without Ethernet	CE foil shield and labels	;	621538027-Kit	\$22	D1
CPU with Ethernet	CE foil shield and labels	3	621538019-Kit	\$22	D1
PSSM module	CE foil shield and labels	3	621538043-Kit	\$22	D1
Comm Expansion Module	CE foil shield and labels	,	621538035-Kit	\$22	D1

Note 1: Shield termination connection for AI & AO Remote Terminal blocks recommend (P/N 395722-01-2 \$9) AO requires one and the AI requires two.

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Revision Date: Oct 24, 2014 Effective Date: Oct 1, 2014

Note 2: The fuses do not provide protection for HSC points.

Note 3: Phoenix Remote Terminations are not approved for Class 1, Div 2 installations.

Note 4: Max 3A per 8 Channel Terminal Block

ControlWave Micro Spares and Accessories (Cont.)

(PC 854)

	DESCRIPTION PART NO.						
Spare Parts & Miscellane	ous Accessories (PC 493 & 854)			animin's			
DIN Rail Mounting Adapter	Fits 2, 3 and 4 slot chassis	396856-01-2	\$126	D1			
DIN Rail Mounting Adapter	Fits 8 slot chassis	396856-02-0	\$200	D1			
Loop Supply	DIN Rail mount 24V Loop Supply	721708-02-1	\$560	Α			
I/O module wire way cover	Covers 2 I/O modules	396546-01-3	\$15	D1			
LED board	16 LEDs for DIO, DI, DO and HSC modules	400042-01-0	\$65	D1			
Blank I/O module front		396545-01-7	\$12	D1			
Termination Block	PSSM 3-pin for power	391718-10-0	\$15	D1			
Termination Block label	Label for 3-pin power terminal block above	396592-00-7	\$1	D1			
Termination Block	PSSM 2-pin for watchdog	391718-09-6	\$15	D1			
Termination Block	10-pin terminal block (All I/O modules)	391718-03-7	\$27	D1			
Remote Termination Relay	6 Amp Relay for remote termination.	V2961105	\$10	D1			
Remote Termination Fuse	1/8 Amp I/O point fuse for Phoenix remote termination.	391707-04-3	\$ 5	D1			
Remote Termination Fuse	Amp DO I/O point fuse for Phoenix remote termination.	391707-06-0	\$5	D1			
Remote Termination Fuse	2 Amp DI & DO module fuse for Phoenix remote termination.	391707-05-1	\$5	D1			
Remote Termination Fuse	1/8 Amp I/O point fuse for MIO 400131-02-1	395735-01-7	\$ 5	D1			
Remote Termination Fuse	1/4 Amp fuse for MIO 400131-02-1	395736-01-3	\$5	D1			
RTD sensor	TC cold junction compensation for local termination	400127-01-6	\$41	.D1			
RTD sensor	TC cold junction compensation for remote termination module	400128-01-2	\$45	D1			
Jumper plug		389193-01-1	\$1	D1			
Battery (BR2330)	Use with clip type holder	395620-01-5	\$24	D1			
Battery (CR2032)	Use with snap type holder	W15020X0012	\$24	D1			
Fuse		391196-12-0	\$3	D1			
Dial-Line Modem Kit	Replacement Kit	396582-03-6	\$740	D1			

Note 1: Shield termination connection for Al & AO Remote Terminal blocks recommend (P/N 395722-01-2 \$9) AO requires one and the Al requires two.

Note 2: The fuses do not provide protection for HSC points.

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ControlWave Micro Spares and Accessories (Cont.)

(PC 854)

	DESCRIPTION	PART NO.	LIST PRICE	CAT
CPU Modules				
Non CE Approved				
01	33 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396563-19-8	\$1,308	Α
02	33 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396563-19-8S	\$1,059	Α
04	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396563-15-5	\$1,306	A
05	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396563-16-3	\$1,699	A
06	150 MHz, 1 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396879-11-0	\$2,022	Α
07	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396563-16-3S	\$1,355	Α
08	150 MHz, 1 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash	396879-11-0S	\$1,676	Α
09	1 ENET, 1 RS232, 1 RS485	396563-18-0	\$928	Α
CE Approved				
	33 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
11	(621538-02-7 + 396563-19-8)	396563198-CE	\$1,355	Α
	33 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
12	(621538-02-7 + 396563-19-8S)	396563198S-CE	\$1,106	Α
	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
14	(621538-02-7 + 396563-15-5)	396563155-CE	\$1,353	Α
	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
15	(621538-01-9 + 396563-16-3)	396563163-CE	\$1,746	Α
	150 MHz, 1 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
16	(396879-11-0 + 621538-01-9)	396879110-CE	\$2,069	Α
	150 MHz, 2 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
17	(621538-01-9 + 396563163S)	396563163S-CE	\$1,402	Α
	150 MHz, 1 RS232, 1 RS485, 64 MB SDRAM, 16 MB Flash			
18	(396879110S + 621538-01-9)	396879110S-CE	\$1,723	Α
	19, CE COMM CPU, 1 ENET, 1 RS232, 1 RS485 (621538-01-			
19	9 + 396563-18-0)	396563180-CE	\$975	Α

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ControlWave Applications SOFTWARE USER LICENSE

For customer order of 12 Licenses, order a 10 License Dongle and a 2 License Dongle
Order by line Segment Numbers, Line 1: Segment 10 = 10 = \$13,635
Line 2: Segment 10 = 2 = \$3,030
Total List price is \$15,400 subject to Base and Extended discounts

CWAP

(PC 894)

MODEL	SPEC SHEET			LIST	
& SEG	SPEC SHEET	DESCRIPTION	SELECT	PRICE	CAT.
. AA		ControlWave Station Manager Licenses	AA		
	ļ		00	\$0	
	-		01	\$1,515	
			02	\$3,030	ļ
	ľ		03	\$4,545	
	•		04	\$6,060	
			05	\$7,575	
		CW Station Manager Licenses	10	\$13,635	
10	CWMICRO:SM	On USB Dongle (Note 1) (Note 2)	15	\$20,452	Α
		•	20	\$27,269	
			25	\$28,406	ľ
			30	\$34,087	
,			35	\$39,768	
			40	\$45,449	
			45	\$51,130	
			50	\$51,942	
ВВ		CW Application Installer (Note 2) (Note 3)	BB		
		None +	00	\$0	
20		Station Manager Version 3.02 Licensed Installer CD ROM	01	\$0	
20		Station Manager 6-Run Licensed Installer CD ROM	02	- \$0	
		Station Manager 8-Run/XT-8-Run Licensed Installer CD ROM	03	\$0	
CC	Haffy fill and tillfad for Grand Harristop	Application Source Options		ide to produktion post Film Service at 1997	
		None	00	\$0	
		Station Manager Version 3.02 Locked Source	01	\$8,216	
30		Station Manager XT Version 3.02 Locked Source	02	\$8,216	
30	Ī	Station Manager Version 4.06 Run Locked Source	03	\$8,216	
		Station Manager Version 4.08 Run Locked Source	04	\$8,216	
	Į	Station Manager XT Version 4.0 Locked Source	05	\$8,216	

Model Number: CWAP - AA - BB - CC

Note 1: The Dongle provides the number of User Licenses ordered. Each license will enable a single RTU to run the Station Manager application. License can also be restored from the RTU back to the Dongle to allow licensing another RTU.

Note 2: Both segments, AA and BB (10 and 20), must be specified.

Note 3: Only one selection can be specified.

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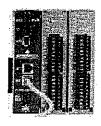
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ControlWave FOUNDATION Fieldbus Interface

The FOUNDATION™ Fieldbus (FF) Interface allows a ControlWave RTU to support bi-directional multi-drop digital communication between FOUNDATION Fieldbus H1 devices over a High-Speed Ethernet (HSE) host network.

FF consists of two separate bus networks. The first is the 31.25KB (H1) bus for multi-drop connection to 2-wire field devices. The second is the 10/100 Mbps Ethernet control network backbone with HSE protocol which passes FF data bi-directionally to a ControlWave or to the AMS™ Suite for integration within the PlantWeb[®] architecture.



The FF Interface may be a separate standalone chassis for use with any ControlWave family PLC/RTU or it can be connected to, and receive power from, a ControlWave Micro backplane.

CWM-FF	<u> </u>				(1	PC 849)
MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
Α	CARTERIAL	Packaging		. A.		
		None	NA	0	See Note 1	Α
10		Chassis - Panel mount	UL	1	See Note 1	Α
		Chassis - Din rail mount	UL	2	See Note 1	Α
В		HSE Processor		В		
20		None	NA	0	See Note 1	Α
20		FOUNDATION Fieldbus processor	UL	1	See Note 1	Α
C		Segment Card Slot 1	的技术数别数	C		经转货
		None	NA	0	See Note 1	Α
		FF H1, single segment w/o power conditioner	UL	1	See Note 1	Α
30		FF H1, single segment with power conditioner	UL	2	See Note 1	Α
		FF H1, dual segment w/o power conditioner	υL	3	See Note 1	Α
		FF H1, dual segment with power conditioner	UL	4	See Note 1	Α
- D		Segment Card Slot 2		D		
		None	UL	0		
		FF H1, single segment w/o power conditioner	ՄL	1	See Note 1	Α
40		FF H1, single segment with power conditioner	UL	2	See Note 1	Α
		FF H1, dual segment w/o power conditioner	UL	3	See Note 1	A
		FF H1, dual segment with power conditioner	UL	4	See Note 1	Α

ControlWave FOUNDATION Fieldbus Interface Parts

(PC 898/410)

11.						
DESCRIPTION	PART NO.	LIST PRICE	CAT.			
Field Interface Configuration Software (PC 898)						
Software CD with license	395575-11-7	See Note 1	A			
Spare parts (PC 410)		VIEW BUTTONEY				
H1 Segment Carrier	400136-01-5	See Note 1	Α			
H1 Segment module	396910-01-7	See Note 1	A			
Power Conditioner	396911-01-3	See Note 1	A			
FUSE (1.5A 5B)	395603-10-2	See Note 1	D1			
Foundation Fieldbus Terminator	395757-01-0	See Note 1	D1			
Note 1: For prices consult factory.						

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Model Number: CWM-FF - A - B - C - D

Note 1: For prices consuit factory.

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ControlWave Express

ControlWave® Express SCADA RTU provides exceptional performance and unique functionality for applications requiring low installation cost, very low power consumption, and space efficiency. ControlWave Express is a fixed I/O RTU with three serial and one optional Ethernet port for a wide range of remote area applications.



856)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
A		Packaging	112764 (Menty 2786) 485	Α	erakeri eks	NAME OF
174.0	420DS-	Basic RTU Panel Mount	UL/ATEX	1	\$0	Α
10	6C	Basic RTU 35 MM DIN Rail Mount	UL/ATEX	2	\$105	Α
В	Jigoglas var Tostasjanova	Certification		B /-		37.439
20		UL Class I DIV II	UL/ATEX	1	\$0	Α
20		UL, CE (With Protective Cover) (Note 1)	UL/ATEX/CE	2	\$53	Α
C D	TENE	Processor (CPU board has 2 PI/DI & 3 serial ports)	建设计划等的设定	CD		19-7-7-5
		Advanced CPU with gas calculations				
ĺ		Ultra low power CPU (5-18V, Solar reg, AUX				
		Out & RTD interface, 14 MHz)	UL/ATEX	A5	\$2,133	Α
		Low power CPU without Ethernet (9-28V,				
		Solar Regulator, Aux Out, 33 MHz)	UL/ATEX	A6	\$2,005	Α
		CPU with Ethernet (9-28V, Ethernet, 33 MHz,				
į		No Solar Regulator or Aux Out)	UL/ATEX	8A	\$2,219	Α
		Ultra low power CPU (5-18V, Solar reg, AUX				
		Out & RTD interface, 14 MHz) (CE Approved)	UL/ATEX	B5	\$2,133	Α
•		Low power CPU without Ethernet (9-28V,				
		Solar Regulator, Aux Out, 33 MHz) (CE Approved)	UL/ATEX	B6	\$2,005	Α
j		CPU with Ethernet (9-28V, Ethernet, 33 MHz,				
30		No Solar Regulator or Aux Out) (CE Approved)	UL/ATEX	B8	\$2,219	Α
30		Standard CPU without gas calculations			thick	PUT ME TALL
		Ultra low power CPU (5-18V, Solar reg, AUX				
		Out & RTD interface, 14 MHz)	UL/ATEX	S5	\$1,442	Α
		Low power CPU without Ethernet (9-28V,		1		_
		Solar Regulator, Aux Out, 33 MHz) (Non CE Approved)	UL/ATEX	S6	\$1,315	A
		CPU with Ethernet (9-28V, Ethernet, 33 MHz,			*	
		No Solar Regulator or Aux Out) (Non CE Approved)	UL/ATEX	S8	\$1,526	Α
	1	Ultra low power CPU (5-18V, Solar reg, AUX				
		Out & RTD interface, 14 MHz) (For CE Approval)	UL/ATEX	S5	\$1,442	Α
		Low power CPU without Ethernet (9-28V,	İ		l	
ľ		Solar Regulator, Aux Out, 33 MHz) (For CE Approval)	UL/ATEX	S6	\$1,315	Α
		CPU with Ethernet (9-28V, Ethernet, 33 MHz,			4 500	
		No Solar Regulator or Aux Out) (For CE Approval)	UL/ATEX	S8	\$1,526	Α

Model Number: CWEXP - A - B - C D - E - F G - H - I

Note 1: 9-pin 'D' connector for Comm port 1 cannot have a connector hood. Use (P/N 392843-03-0 \$104) for cable without

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\$606

ControlWave Express (Cont.)

CWEXP			•		(F	PC 856)
MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
E		I/O Options		\$20 .	Service Control	
		None	UL/ATEX	0	\$0	Α
		2 PI/DI on Base CPU Base + 2 DI/DO, 4 DI, 2 DO, 2 HSC	UL/ATEX	4	\$298	Α
40		2 PI/DI on Base CPU Base + 2 DI/DO, 4 DI, 2 DO, 2 HSC, 3 Al	UL/ATEX	5	\$639	А
		2 PI/DI on Base CPU Base + 2 DI/DO, 4 DI, 2 DO, 2 HSC, 3 AI, 1 AO	UL/ATEX	6	\$887	Α
⊬F.G		Application Program		∌ FG		
50		No application program	N/A	00	\$0	Α
Н		Conformal Coating		H		
50		With	N/A	1	\$294	Α
e Ja		Display (Keypad buttons)	The Marine To		1/2/4/2/3	High Sylven
		None	UL	0	\$0	Α
70	420DS-	Display - 4 line X 20 character	111	4	\$432	

UL

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2 buttons. Also includes 2' display cable

Display/Keypad - 4 line X 20 character 25 button keypad. Also includes 2' cable

70

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ControlWave Express Spare Parts

(PC 851)

DESCRIPTION	PART NO.	LIST PRICE	CAT.
Fuse	395603-07-2	\$4	D1
Battery	395620-01-5	\$24	D1
DIN rail mounting kit	621583014-Kit	\$92	D1
I/O terminal cover	621590010-Kit	\$54	D1
LED board	400098-01-6	\$45	D1
Boot PROM for all 14 MHz CPUs	Call Water	town	
Boot PROM for all 33 MHz CPUs	Call Water	town	
PROM Extraction tool	395548-01-2	\$8	D1
3 pin terminal block	395711-01-0	\$15	D1
4 pin terminal block	395710-03-0	\$15	D1
5 pin terminal block	395710-04-9	\$23	D1
6 pin power terminal block	395710-07-3	\$23	D1
8 pin terminal block	395710-05-7	\$23	D1
9 pin terminal block	395710-06-5	\$23	D1
PC Cable-10 Foot;			
9-pin Female-to-Circular, Alden Connector	395402-01-8	\$180	D1
PC Cable-25 Foot;			
9-pin Female-to-Circular, Alden Connector	395402-02-6	\$198	D1

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ControlWave ExpressPAC

ControlWave® ExpressPAC is a pre-packaged SCADA RTU providing exceptional performance and unique functionality for applications requiring low installation cost, very low power consumption, and space efficiency. ControlWave Express is a fixed I/O RTU with three serial and one optional Ethernet port for a wide range of remote area applications. The enclosure supports a wide range of wired and wireless communication, display, solar and battery backup options.



CWEPAC (PC 859)

MODEL	SPEC		100000141	251 527	LIST	CAT
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
Α		Integral Enclosure and LCD/Keypad		_ A	CONTRACTOR OF THE PARTY OF THE	
		7½" x 11¾" Lexan with LCD display only, no Keypad	UL	1	\$852	Α
10		7½" x 11¾" Lexan, LCD, 2 Keys	UL	2	\$1,193	Α
10		7½" x 11¾" Lexan, LCD, 25 Keys	UL	3	\$1,363	Α
		7½" x 11¾" Lexan, LCD, No Display	UL	4	\$663	Α
- В		Power System (Note 1)		B		
		None - External Power Source is Necessary	UL	1	\$0	A
1		7.2 V Lithium Battery, Single	UL	2	\$256	Α
		7.2 V Lithium Battery, Dual	UL	3	\$445	A
		6 V, 7 AH Lead Acid Cell Battery and 6 V, 1 W Solar Panel				
20		System	UL	4	\$211	A
		6 V, 7 AH Lead Acid Cell Battery and 6 V, 4.3W Solar				
		Panel System	UL.	5	\$385	_A_
		12 V, 7 AH Lead Acid Cell Battery and 12 V, 4.5 W Solar		_	4	_
		Panel System	UL	6	\$400	Α
CD		Processor (CPU board has 2 PI/DI & 3 serial ports)		CD		
		Advanced CPU with gas calculations				45 SE
		Ultra low power CPU (5-18V, Solar reg, AUX				
, Į		Out & RTD interface, 14 MHz)	UL	A5	\$2,130	A
. 1		Low power CPU without Ethernet (9-28V,		l		- 1
Ĺ		Solar Regulator, Aux Out, 33 MHz)	UL	A6	\$2,003	A
		CPU with Ethernet (9-28V, Ethernet, 33 MHz,				
30		No Solar Regulator or Aux Out)	UL	A8	\$2,217	Α
30		Standard CPU without gas calculations				
		Ultra low power CPU (5-18V, Solar reg, AUX				.
1		Out & RTD interface, 14 MHz)	UL	S5	\$1,440	Α
· ·		Low power CPU without Ethernet (9-28V,				
		Solar regulator, Aux Out, 33 MHz)	UL	S6	\$1,313	Α
Γ		CPU with Ethernet (9-28V, Ethernet, 33 MHz,				
	_ [No Solar Regulator or Aux Out)	UL	S8	\$1,525	Α
Viodel Nu		WEPAC - A - B - C D - E - E - G H - J - K - L M N		··· ·	· .	

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Note 1: Power System Selections 2, 3, 4, & 5 can only use 5 - 18 V CPUs A1 & S1.

ControlWave ExpressPAC (Cont.)

ME	ъл	

(PC 859)

MODEL & SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	САТ
, E		I/O Configuration		T.E.		
		No I/O module - Base CPU 2 DI / PI Only	UL	0	\$0	Α
40		2 PI/DI on Base CPU + 2 DI/DO, 4 DI, 2 DO, 2 HSC	UL	4	\$297	Α
		2 PI/DI on Base CPU + 2 DI/DO, 4 DI, 2 DO, 2 HSC, 3 AI	UL	5	\$638	Α
		2 PI/DI on Base CPU + 2 DI/DO, 4 DI, 2 DO, 2 HSC, 3 AI, 1 AO	UL	6	\$886	Α
F		Mounting		E		
50		Pole mount (pipe clamp and brackets)	JL	1	\$63	Α
50		Panel mount (with 4 fastening ears)	υL	2	\$15	Α
GH		Application Program		GH		
60	, .	None	UL	00	\$0	Α
J	a aleman	Hazardous Area Certification	- 40 B-56			
70		None	UL.	0	\$0	Α
70	,	Class I, Division 2 Non-incendive (UL/CUL - NI)	UL	1	\$0	Α
K	galo dina la Pistali 1259.	Radio Cable/Mounting Hardware and Polyphaser Option		K		WEEK.
		No Radio	UL	0	\$0	Α
İ	•	Without Polyphaser - MDS radio cable mntng (Note 1)	UL	3	\$0	Α
		Without Polyphaser - Transnet radio cable mntng (Note 1)	UL	4	\$0	Α
80	Ī	Without Polyphaser - FreeWave radio cable mntng (Note 1)	UL	5	\$0	Α
	Ī	With Polyphaser - MDS radio cable mntng (Note 1)	UL	6	\$174	A
		With Polyphaser - Transnet radio cable mntng (Note 1)	UL	7	\$174	Α
	Ī	With Polyphaser - FreeWave radio cable mntng (Note 1)	UL	8	\$174	Α
LMN		Radio or Modern Option		LMN		
		None	UL	000	\$0	Α
		Dial-line Modem (Cermatek)	UL	001	\$1,041	Α
Ī	· I	1200 Baud leased line modem	UL	002	\$969	Α
Ī		Standard FreeWave Radio	UL	103	\$1,460	Α
Ī		Standard FreeWave Radio Ready	UL	104	\$160	Α
Ī	,	Standard MDS Transnet Radio	UL	201	\$2,066	Α
Ī		Standard Transnet Radio Ready	UL	202	\$160	Α
90	;	Standard MDS 9810 Radio with Diag	UL	301	Contact Factory	Α
Ī	;	Standard MDS 4710A Radio with Diag	UL	310	Contact Factory	Α
ſ	,	Standard MDS 4710B Radio with Diag	UL	311	Contact Factory	Α
F		Standard MDS 9710A Radio with Diag	UL	320	Contact Factory	Α
		Standard MDS 9710B Radio with Diag	UL	321	Contact Factory	Α
r		Standard MDS 4710 A/B, 9710 A/B, 9810 Radio Ready	UL		Contact Factory	Α
F		Standard MDS EntraNet Radio Ready	UL.	404	\$160	Α
		Standard MDS iNet 900 Radio Ready	UL	423	\$160	Α

Note 1: All radios are located on the Radio Bracket in the ExpressPAC enclosure.

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CW_10, CW_30, CW_35 & CW_31 Upgrade/Exchange

(PC 891)

DESCRIPTION	PART NO.	PRICE	CAT.
CW_10 Upgrade/Exchange Kit_(Note: 1)		No Company	
CW_10 Upgrade kit - 12 Vdc includes CPU & MFIB	396807-01-1-EXCH	\$5,193	Α
CW_10 Upgrade kit - 24 Vdc includes CPU & MFIB	396807-02-0-EXCH	\$5,193	Α
CPU Credit - credit issued upon return of 3310 CPU	3310CPU-CREDIT	(\$477)	
MFIB Credit - credit issued upon return of 3310 MFIB	3310MFIB-CREDIT	(\$477)	
CW_30 CPU Upgrade/Exchange Kit (Note: 1 & 2)		Hallowis Deep 15, 2015 Touris	
CW_30 CPU, 2 serial, without Ethernet	396807-03-8-EXCH	\$4,327	Α
CW_30 CPU, 2 serial, with 1 Ethernet port	396807-04-6-EXCH	\$4,762	A
CW_30 CPU, 2 serial, with 2 Ethernet ports	396807-05-4-EXCH	\$5,193	Α
CPU Credit - credit issued upon return of 3330 CPU	3330CPU-CREDIT	(\$798)	
CW_35 CPU Upgrade/Exchange Kit (Note: 1)			Section of the sectio
CW_35 CPU, 2 serial, with 2 Ethernet ports	396807-09-7-EXCH	\$5,042	Α
CPU Credit - credit issued upon return of 3335 CPU	3335CPU-CREDIT	(\$477)	
CW_31 CPU Upgrade/Exchange Kit (Note: 1)			
CW_31 CPU, 2 serial, with 1 Ethernet ports	396807-10-0-EXCH	\$3,361	Α
CPU Credit - credit issued upon return of 3331 CPU	3331CPU-CREDIT	(\$477)	
GW_30 Serial Comm Upgrade/Exchange Kit (Note: 1)			
CW_30 - 2 Port Enhanced Comm Board (3330 only)	396807-06-2-EXCH	\$865	A
CW_30 - 4 Port Enhanced Comm Board (3330 only)	396807-07-0-EXCH	\$1,126	Α
Comm Credit - credit issued upon return of 3330 comm card	3330COMM-CREDIT	(\$159)	
CW_35 Serial Comm Upgrade/Exchange Kit (Note: 1)			
CW_35 - 2 Port Enhanced Comm Board (3335 only)	396807-12-7-EXCH	\$840	А
CW_35 - 4 Port Enhanced Comm Board (3335 only)	396807-11-9-EXCH	\$1,092	Α
Comm Credit - credit issued upon return of 3335 comm card	3335COMM-CREDIT	(\$159)	

Note 1: Upgrade/Exchange kits require a PO for the full published list price less discount. The customer will be invoiced for this full list, less the discount. Upon return of the old CPU, MFIB, and comm boards, a credit will be issued for Returned Credit Value.

Note 2: BIP port cable not included with **CW_30 CPU**. Order BIP port cable (P/N **621529010-Kit** \$91) when upgrading CPU that do not already have the BIP cable. For example 3330 186 (with no BIP ports) or 386 Real Mode CPUs with BIP ports on the CPU.

Note 3: Existing 33xx COMMUNICATION CARDs are not compatible with the CW_XX CPUs. COMMUNICATION CARDs must be upgraded with the CW_XX COMMUNICATION CARDs.

Note 4: CW XX CPUs and COMM cards are FM APPROVED for Class 1, Div. 2 Hazardous Installations.

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REVISION HISTORY

Date	Changes
4-Jan-11	Initial release of Consolidated Price book.
27-Jan-11	Changed CPU from segment 20 to 30 and power supply from segment 30 to 40.
	Added items on ControlWave PAC:
30-Mar-11	Segment 20 - Part no: CW-B1 (page 1); CW-FF72 to 84 (page 3).
30-Mar-11	Added items on ControlWave Micro:
	Segment 60 & 70 - Part no: CWM-HH62 to 74 (page 16).
	Added items on ControlWave Express:
	Spec Sheet: 420DS-6C in Segment 10 (page 26).
5-Apr-11	added new item - Segment 70: 420DS-5L (page 26).
6-Apr-11	Changed SELECT HI to H on Seg 60 (page 26).
22-Jul-11	Update prices on price pages for October 2011 price increase.
29-Aug-11	Deleted: Part Numbers: BB-16Al2H, BB-8Al2-4AO2-H, BB-16DO2-H, BB8-DI2-8A12-H, BB-8CNT-U
	BB-8INS-U, BB-4RTD-4D12-U, BB-16AI2-M, BB-8AI2-4AO2-M, BB-16DI2-M
	BB-16DO2-M, BB-8DI2-8DO2-M, BB-8DI2-8AI2-M, BB-8CNT-M, BB-8INS-M
	BB-4RTD-4DI2-M.
	Changed Spec: 420DS-5L to CWMICRO-SM
	Added: Station Manager Application and Station Manager XT Application on SEG 39.
2-Sep-11	Note: 4 on page 12.
	ControlWave Applications: SOFTWARE USER LICENSE on page 23.
	Rosemount 1420 Wireless Gateway: 3.6% price increase.
7-Sep-11	Added: Selection to ControlWave FOUNDATION Fieldbus Interface
	Segment 10, 20 and 30 page 25.
	Price change - Part numbers:
	CWM-HH15 - \$1102 to \$1185.
	CWM-HH28 - \$1220 to \$1303.
	CWM-HH41 - \$1258 to \$1341.
21-Oct-11	CWM-HH67 - \$1102 to \$1185.
	CWM-KK15 - \$1102 to \$1185.
	CWM-KK28 - \$1220 to \$1303.
	CWM-KK41 - \$1258 to \$1341. CWM-MM15 - \$1102 to \$1185.
	CWM-MM28 - \$1220 to \$1303.
	CWM-MM41 - \$1258 to \$1341.
	Deleted: Power Supplies - Phoenix (PC 493)
	Part Numbers: V2938581; V2938604; V2938620
	Power Supplies - PULS (PC493) - Series Class I, Div 2 approved Spring clamp terminals
	Part Numbers: VML30102; VML50102; VML100102; VML30100; VML50100; VML100100
	Q-Series Class 1, Div2 - Spring clamp terminals
	Part Numbers: VQS20241
	Deleted Part Numbers:
	VCS3241; VCS5241; VCS10241
	Price change - Part numbers:
	398036-00-4 - \$651 to \$250
	398036-01-2 - \$242 to \$691

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Date	Changes
	Deleted Part Numbers:
	CWM-HH02 and CWM-HH03 (page 12).
20-Jan-12	Added Part Number:
	400131-02-1 Mixed I/O Remote Term Fused (6DIO, 4AI, IAO) (page 21).
	Deleted Note 3: MDS radio is not compatible with Comm module 396581-01-3.
	Added: Note 1 & Note 2 (page 2); Note 2 (page 13); Note 3 (page 16); Note 2 (page 18).
	Note 1 (page 3).
	Price change: Seg 50 - Selection 00 \$0 to \$20.
	Deleted: Model & Seg E (page 4) P/N: CWREDCPUXCWREDCONF0, CWREDCPUXCWREDCONF1
	Added item: Model & Seg D selection 3 & 4 (page 4)- P/N CWREDCPUCWREDCHASI3,
	CWREDCPUCWREDCHASI4.
	Model & Seg A selection 4 (page 5) - P/N CWREDCPUCWREDCPU4
	Deleted: Model & Seg R (page 6)
	Price changes: ControlWave PAC Parts and Accessories
	P/N 396391-01-0 \$59 to \$58
27-Jan-12	396391-02-8 \$79 to \$78
	396885-01-2 \$138 to \$136
	396292-01-6 \$82 to \$81
	395622-02-6 \$160 to \$159
	395622-04-2 \$260 to \$258
	395622-00-0 \$237 to \$235
	396389-04-0 \$44 to \$43
	396389-03-1 \$67 to \$66
	Added: Note 4 (page 20).
	Added items: ControlWave Micro Spares and Accessories
	P/N 396582-03-6; 395620-01-5.
4 1 4 6	Added item: Seg E 40 selection 1 Conformal Coating (page 5).
1-Mar-12	Seg R 100 selection 1 Conformal Coating (page 6).
6-Jul-12	Added page: ControlWave Ethernet I/O (page 10).
28-Sep-12	Update prices on price pages for October 2012 price increase.
24-Oct-12	Deleted: Rosemount 1420 Wireless Gateway.
40 May 40	Added items: ControlWave PAC Seg 20 - Selection 5 & 6 (page 1).
18-Mar-12	Added items: CWREDCPU Seg 10 - Selection 5 & 6 (page 1).
· · · · · · · · · · · · · · · · · · ·	Added items: Seg CC 30 CPU Module - Selection 08, 09, 10 & 11 (page 1).
	Seg CC 30 I/O Expansion Rack CPU - Selection 12 & 13 (page 2).
	Price change: Seg E 40 CE Approval - Selection 1 - \$72 to \$0 (page 2).
	Added items: Seg HH & JJ 60 & 70 - Selection 75, 76 & 77 (page 12).
28-Mar-13	Seg C D 30 - Advanced CPU with gas calculations Selection B5, B6 & B8 (page 25).
	Seg C D 30 - Standard CPU without gas calculations Selection S5, S6 & S8 (page 25).
	Seg K 80 - Radio Cable - Selection 3, 4, 5, 6, 7 & 8 (page 29).
	Deleted items: Seg K 80 - Radio Cable - Selection 1 & 2 (page 29).
	Changed: Note 1 (page 29).
	Deleted: 33 MHZ CPU Boot PROM (page 22).
3-Apr-13	150 MHZ CPU Boot PROM (page 22).
	Boot PROM Extractor (page 22).

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Date	Changes
31-May-13	Added items: Seg CC 30 CPU Module - selection 11 & 12 (page 11).
	Seg CC 30 CPU Module - selection 14, 15, 16, 17, 18 & 19 (page 12).
3-Jul-13	Deleted items: ControlWave Seg 20 - selection 5 & 6 (page 1 & 5).
30-Sep-13	Update prices on price pages for October 2013 price increase.
17-Oct-13	Added item: ControlWave Seg 10 - selection 5 (page 5).
28-Oct-13	Update: ControlWave FOUNDATION Fieldbus Interface page - Added: Note 1 (page 25).
5-Nov-13	Deleted items: Seg 60 Conformal Coating on CWEXP (page 27).
	Update items: Seg 30 CPU Module (Slot #2)
8-Nov-13	Selection: 11 to 10, 12 to 11, 14 to 12, 15 to 13, 16 to 14, 17 to 15,
	18 to 16 & 19 to 17 (page 11 & 12).
11-Nov-13	Deleted items: Seg 50 Pump Control Application (page 27).
11-1400-13	Seg 60 Pump Control Application (page 30).
5-Dec-13	Added items: CWPAC Seg 20 - selection 5 & 6 (page 1).
3-260-13	Deleted item: CWREDCPU Seg 10 - selection 5 (page 5).
	Updated items: CWM Seg 30 CPU Module (Slot #2)
13-Dec-13	Selections: 10 to 11, 11 to 12, 12 to 14, 13 to 15, 14 to 16, 15 to 17,
	16 to 18 & 17 to 19 (page 11 & 12).
16-Dec-13	Deleted items: PSSM Selections 1, 3 & 4 SEG 20 CWPAC (page 1).
10-560-13	Added: Conformal Coating Seg 60 selection 1 on CWEXP (page 27).
	Price update: Seg 30 Sel 05 \$1,699 to \$1,714 (page 11).
	Seg 40 Sel 01 \$561 to \$565 (page 12).
	Seg 40 Sel 03 \$737 to \$744 (page 12).
20-Jan-14	Seg 60 & 70 Sel 08 \$567 to \$573 (page 14).
	Seg 60 & 70 Sel 11 \$495 to \$499 (page 14).
	Seg 60 & 70 Sel 15 \$1259 to \$1,181 (page 14).
	Seg 60 & 70 Sel 18 \$991 to \$1,001
18-Feb-14	Revalidated: CWM prices (pages 14 to 23).
	Updated PN's: 396359-01-9-CE-Kit to 396359019-CE-Kit (page 8).
	396359-06-0-CE-Kit to 396359060-CE-Kit (page 8).
	396359-07-8-CE-Kit to 396359078-CE-Kit (page 8).
	396359-05-1-CE-Kit to 396359051-CE-Kit (page 8).
	396359-12-4-CE-Kit to 396359124-CE-Kit (page 8).
27-Feb-14	Deleted PN's: 396359-02-7-CE-Kit, 396359-09-4-CE-Kit & 396359-10-8-CE-Kit (page 8).
27-1 00-14	Updated PN's: 621538-02-7-Kit to 621538027-Kit (page 22).
	621538-01-9-Kit to 621538019-Kit (page 22).
	621538-04-3-Kit to 621538043-Kit (page 22).
	621538-03-5-Kit to 621538035-Kit (page 22).
	621583-01-4-Kit to 621583014-Kit (page 28).
	621590-01-0-Kit to 621590010-Kit (page 28).
	621529-01-0-Kit to 621529010-Kit (page 31).
	Updated Supermarket Items: Seg 10 Sel 2 (page 1).
	Seg 10 Sel 2 & 3; Seg 20 Sel 2; Seg 30 Sel 05 (page 11).
	Seg 30 Sel 08 (page 12).
28-Mar-14	Seg 50 Sel 2 (page 13).
	Seg 60 & 70 Sel 14 (page 14).
	Seg 60 & 70 Sel 06; Sel 07; Sel 18; Sel 20; Sel 22 (page 14).
	P/N; 395575-11-7 (page 25).

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Date	Changes
28-Mar-14	Updated Supermarket items: Seg 50-120 Sel 3, 9 & 12 (page 2).
27-May-14	Updated Embedded Application: Seg 39 Sel 01 & 02 (page 12). Added items: Embedded Application: Seg 39 Sel 03, 04 & 05 (page 12). Updated CWAP: Description Seg 10 (page 25). Added items: CWAP: Seg 20 & Seg 30 (page 25).
	Added: Note 1, 2 & 3 (page 25).
2-Jul-14	Added items: CWAP Seg 30 Sel 03, 04 & 05 (page 25).
3-Jul-14	Added ATEX approvals: CWM Sel 2, 3 & 5 (page 11). Sel 2 & 5 (page 12). Sel 05 & 77 (page 13). Sel 10 & 22 (page 14). Sel 10 & 22 (page 17). Sel 10 & 22 (page 19).
23-Jul-14	Added ATEX approvals: CWM Seg 30 Sei 15, 07 & 17 (page 12).
15-Aug-14	Updated: CWM Seg 60 & 70 Note 4 (page 13).
18-Aug-14	Deleted: ControlWave Ethernet I/O - Spare and replacement module (page 10).
4-Sep-14	Added: Note 3 (page 1). Note 3 (page 2). CPU Module Options (page 8). Note 6 (page 11). Note 6 (page 12). CPU Module Options (page 24).
9-Sep-14	Price Change: Sel 301 \$2,505 to Contact Factory. Sel 310 \$2,155 to Contact Factory. Sel 311 \$2,155 to Contact Factory. Sel 320 \$2,416 to Contact Factory. Sel 321 \$2,416 to Contact Factory. Sel 322 \$160 to Contact Factory.
10-Sep-14	Added: Note 1 on ControlWave Ethernet I/O (page 10).
16-Sep-14	Changed: PN: 395620-01-5 to W15020X0012 (page 23).
30-Sep-14	Update prices on price pages for October 2014 price increase.
1-Oct-14	Added: Note 6 on CPU Module (Slot #2) (page 11). Note 6 on Micro 150 CPU With Gas Calcs (page 12). Updated Description: Seg 60 & 70 Sel 04 (page 13).
24-Oct-14	Price Update: CWAP - Segment 10 - 10 = \$12,852 to \$13,635 (page 25). Segment 10 - 2 = \$2,856 to \$3,030 (page 25).

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OPENENTERPRISE SCADA SERVER SOFTWARE LICENSE

OpenEnterprise SCADA is the RAS HOST software product to monitor and control RAS RTU's and flow computers. It is designed to operate on a Microsoft WindowsTM environment in a simplex or redundant configuration.

OESL (PC857)

MODEL	SPEC		400000/41	OF LEGT	LIST	CAT
	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
. · · A . · ·	定是基础	OpenEnterprise SCADA Server		AFARTA D		H430
		OE Server - Stand Alone (Note 1, Note 2, Note 3)	所 上海性型等主			The Chi
		Server already exists.	N/A	0	\$0	A
10		RAS Device drivers (BSAP,ROC),Communications management, Real time and Historical data storage, Data server for HMI's, redundancy support.	N/A	1	\$24,003	. A
В		OE Server Standby			For all the second	
20		None	N/A	0	\$0	Α
20		Hot standby OE Server - requires segment 10	N/A	1	\$20,066	Α
C	ė į tyvi	OpenEnterprise Communications		的原则是		
		OE OPC Client RDI		¥ 32, 3		
30		None	N/A	0	\$0	A
30		Permits OpenEnterprise Server to collect data from a 3rd Party OPC DA 2.05 Server.	N/A	1	\$2,242	А
D	grander (S	OpenEnterprise Server Utilities			orter to the	
		OE Report Suite	1.12克 开联及5.2克斯 1.5 克 1.55			
40		None	N/A	0	\$0	Α
40		Report template develop, publish and distribute kit. Includes Excel Plugin & the report scheduler/config tool.	N/A	1	\$10,401	Α
E		OE Messaging	918100000000000000000000000000000000000			TPA
50		None	N/A	0	\$0	Α
JU		OE Alarm paging and email alerts.	N/A	1	\$2,247	Α

Note 1: Includes entitlement to OE upgrades and product support for the 1 year duration from time of purchase (Receipt of purchase order).

Refer to support contract for defintion of the scope of support and the terms and conditions (OE Product support contract VAPR2011).

Note 2: 30 Day license included with Media with a restriction of 26 tags on the displays. Online registration required for full license activiation.

Note 3: OE Server segment is dispatched with an OE install media (DVD).

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OPENENTERPRISE SCADA CLIENT SOFTWARE LICENSE

The workstation components of OpenEnterprise includes the Thick client side licenses for the HMI functionality.

OEC!	/957)
OECL	(857)

MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
A *		OE Workstation Thick clients				15712V&7
		OE Graphics Black Dongle (Note 4)	and Bull of the Broke Bull of the Bull of the Broke			
		None	N/A	0	\$0	Α
10		Operator Workstation license - Quantity 1	N/A	1	\$4,500	Α
		Operator Workstation license - Quantity 5	N/A	5	\$20,000	Α
		Operator Workstation license - Quantity 10	N/A	10	\$35,000	Α
B	逐渐上接到	OE Terminal Clients (Note 1, 2,3,5)	inde Marida			
		None .	N/A	0	\$0	Α
		5 Concurrent Users	N/A	5	\$15,000	Α
20		10 Concurrent Users	N/A	10	\$24,000	Α
20		15 Concurrent Users	N/A	15	\$31,500	Α
		20 Concurrent Users	N/A	20	\$36,000	Α
		25 Concurrent Users	N/A	25	\$37,500	Α

Note 1: Quantities accepted is 5 to max 25 per key. One key ordered per model string.

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Note 2: OETS minimum licenses per key = 5

Note 3: Each OpenEnterprise Terminal Services license requires a single Microsoft Terminal Services CAL.

Note 4: OpenEnterprise workstations will have 30 day trial period on initial install.

Note 5: Concurrent User licenses are RDP clients. As such if you open 2 OE desktops for dual monitors it will consume 2 RDP clients.

OPENENTERPRISE SCADA PARTS

OE Parts to support Upgrade and legacy systems.

DESCRIPTION	PART NO.	LIST PRICE	CAT.			
OE Graphics Unactivated Black Dongle (Note 1)			孙严 河			
Unlicensed dongle for upgrade or replacement	395065-00-3	\$405				
Note 1: For use ONLY with OE 2.82 and later (Graphworx 9.2 or earlier). Used in upgrade process from Blue dongle.						

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OPENENTERPRISE SCADA SERVER UPGRADE PLAN

The Upgrade Plan is available to customers who require the latest release of OpenEnterprise software and ARE NOT covered by

- 1. First year cover from initial purchase of the license.
- 2. Annual support plan.

The Upgrade plan provides customers the following services:

- 1. Entitlement of the latest major release of OpenEnterprise for the calendar year of the upgrade.
- 2. Product information telephone support, during office hours, for Open Enterprise for the calendary year of the upgrade.
- 3. Customer is entiltled to enroll into the Customer Annual Support Plan at the calendar expiry of the Upgrade plan.
- Note 1: Upgrades must be applied to all components, partial upgrades will not be allowed and will invalidate the support.
- Note 2: The Upgrade plan does not include for any engineering time to implement upgrades. This can be quoted seperately.
- Note 3: Product support and access to upgrade media commences on receipt and approval of purchase order.
- **Note 4:** The option to take up a support contract is available on completion of the upgrade contract (1 year after purchase). This must occur within 4 weeks of expiry or an upgrade charge will apply.
- Note 5: Refer to support contract for defintion of the scope of support and the terms and conditions (OE Product support contract VAPR2011).

OpenEnterprise SCADA is the RAS HOST software product to monitor and control RAS RTU's and flow computers. It is designed to operate on a Microsoft WindowsTM environment in a standalone or redundant configuration.

OESS (PC 857)

MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
Α	(Tana Pathya)	OpenEnterprise SCADA Server				
		OE Server - Stand Alone (Note 1, Note 2, Note 3)				
		Server already exists.	N/A	0	\$0	Α
10		RAS Device drivers (BSAP,ROC),Communications management, Real time and Historical data storage, Data server for HMI's, redundancy support. Includes OpenBSI Upgrade.	N/A	1	\$19,202	Α
В		OE Server Standby				
20		None	N/A	0 ,	\$0	Α
20		Hot standby OE Server - requires segment 10	N/A	1	\$16,009	Α
C	分类数点	OpenEnterprise Communications				
		OE OPC Client RDI		污垢的数		
30		None	N/A	0	\$0	Α
30		Permits OpenEnterprise Server to collect data from a 3rd Party OPC DA 2.05 Server.	N/A	1	\$1,793	Α
D		OpenEnterprise Server Utilities				新建 生
		OE Report Suite				
40		None	N/A	0	\$0	Α
40		Report template develop, publish and distribute kit. Includes Excel Plugin & the report scheduler/config tool.	N/A	1	\$8,321	Α
E		OE Messaging	建设的企业			
50		None	N/A	0	\$0	Α
.,0		OE Alarm paging and email alerts.	N/A	1	\$1,797	Α

Note 1: Includes entitlement to OE upgrades and product support for the 1 year duration from time of purchase (Receipt of purchase order).

Refer to support contract for defintion of the scope of support and the terms and conditions (OE Product support contract VAPR2011).

Note 2: 30 Day license included with Media with a restriction of 26 tags on the displays. Online registration required for full license activiation.

Note 3: OE Server segment is dispatched with an OE install media (DVD).

Revision Date: Sept 30, 2014

OPENENTERPRISE SCADA CLIENT UPGRADE PLAN

The work station components of OpenEnterprise includes the Thick client side licenses for the HMI functionality.

OECS (PC 857)

MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
A	20 基础设施	OE Workstation Thick clients	\$40.00 (0.05) (0.05) 200.00 (0.05) (0.05)			
	114 mm	OE Graphics Black Dongle (Note 1, Note 5)				
		Workstation license	N/A	1	\$6,232	Α
		Workstation license	N/A	2	\$12,464	Α
		Workstation license	N/A	3	\$18,697	Α
		Workstation license	N/A	4	\$24,929	Α
10		Workstation license	N/A	5	\$31,161	Α
		Workstation license	N/A	6	\$37,393	Α
		Workstation license	N/A	7	\$43,625	Α
		Workstation license	N/A	8	\$49,858	Α
		Workstation license	N/A	9	\$56,090	Α
		Workstation license	N/A	10	\$62,322	Α
В		OE Terminal Clients (Note 2,3,4)			多数多数	
		5 Concurrent Users	N/A	5	\$19,351	Α
		6 Concurrent Users	N/A	6	\$20,667	Α
		7 Concurrent Users	N/A	7	\$24,112	Α
20		8 Concurrent Users	N/A	8	\$27,556	Α
[[10 Concurrent Users	N/A	10	\$30,188	_A_
		15 Concurrent Users	N/A	15	\$45,282	Α
		20 Concurrent Users	N/A	20	\$60,376	Α
		25 Concurrent Users	N/A	25	\$75,470	Α

Note 1: For use ONLY with OE 2.82 and later (Graphworx 8.1 to 9.2).

Note 2: Quantities accepted is 5 to max 25 per key. One key ordered per model string.

Note 3: OETS minimum licenses per key = 5

Note 4: Each OpenEnterprise Terminal Services license requires a single Microsoft Terminal Services CAL.

Note 5: OpenEnterprise workstations will have 30 day trial period on initial install. This is restricted to 26 viewable tags.

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Date	Changes			
1-Oct-11	Initial release of Consolidated Price book.			
28-Sep-12	Update prices on price pages for October 2012 price increase.			
30-Sep-13	Update prices on price pages for October 2013 price increase.			
	Deleted items: Seg 60 OE WebToolkit Server (page 1).			
15-Nov-13	Seg 70 OE WebToolkit Server Connections (page 1).			
13-1404-13	Seg 60 OE WebToolkit Server (page 4).			
	Seg 70 OE WebToolkit Server Connections (page 5).			
21 Nov 14	Updated: OECL (page 2).			
31-May-14	OpenEnterprise SCADA Parts (page 3).			
21-Jul-14	Added item: OECL Sel 0 None on Seg 10 & 20 (page 2).			
30-Sep-14	Update prices on price pages for October 2014 price increase.			

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OPENBSI UTILITIES SOFTWARE USER LICENSE

OpenBSI is a range of software products for Microsoft Windows[™] that provides access to the entire range of Bristol ControlWave and 33xx products. It includes options for communications drivers, diagnostic, data collection tools and OPC & ODBC interfaces.

OpenBSILIC

(PC 898)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
10		OpenBSI Utilities CD (Note 6)	N/A		\$36	Α
		Hardware Dongle License (Note 7)			Shiring.	
160		USB Dongle for portable license. (Software license via web site registration if segment 160 not ordered)	N/A		\$206	А
. A		Programming Software		A	指线套线	
30		ACCOL Workbench	相談() 海藥症			
30.		Compiles both Real & Protected Mode loads	N/A		\$2,500	Ą
	沙雪空	ControlWave Designer with ACCOL III		SEPTEMBER 1		
40		ControlWave programming with ACCOL III Function Block Library	N/A		\$4,139	А

Note 1: Includes automatic upgrades for 1 year.

Note 2: OpenBSILIC pricing should be quoted to all customers whose contract has lapsed for a period greater than 2 years.

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

Qty	<u>Discount</u>	Qty	<u>Discount</u>	Qty	<u>Discount</u>	Qty	<u>Discoun</u> t
2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$3195 less 20% = \$2556

List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$2028 less 20% = \$1622.4

Note 6: Please note that software media CD will only be issued with orders for software. Orders for CD media only will not be accepted.

Note 7: Object Server and Web Toolkit cannot be licensed on a Dongle. They are software licenses only.

Note 8: This is the Quantity of I/O points supported by the Virtual ControlWave license above.

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Effective Date: Oct 1, 2014

(PC 898)

OPENBSI UTILITIES SOFTWARE USER LICENSE (Cont.)

OpenBSILIC OpenBSILIC

MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
⊝ B	用表現	OpenBSI Networking Software		.	S. Salayane /	
	不是统	OpenBSI Network Edition				
20		Includes all Basic OpenBSI Utilifies for network setup, configuration, calibration, data viewing, file downloading & diagnostics.	N/A		\$1,632	А
80		Harvester				级法法
		Historical Data Collection Tools	N/A		\$1,036	Α
		Security Vision		Taki Kalanda (Katangan Ja		自然是 的
90		Security Vision utility. Requires ControlWave Designer application function block P/N	N/A		\$1,164	Α
C		Communication Interfaces		- C	Arranda de la company	
60		OPC Server				
00		None	N/A		\$0	
		Object Server (Not available on Dongle)	Sandarias;	, March Carp		
110		Communications manager for OPC Server(s) supporting ControlWave and NW3000 products	N/A		\$860	Α
	ist i	Object Server OPC Interface (Requires Object Server purcha	se above) (No	te 6)		
Ī		OPC Server Licenses (to connect to Object Server)	N/A	001	\$860	Α
		5 OPC Server Licenses (to connect to Object Server)	N/A	002	\$3,450	Α
120		10 OPC Server Licenses (to connect to Object Server)	N/A	003	\$6,899	Α
[20 OPC Server Licenses (to connect to Object Server)	N/A	004	\$12,072	Α
[50 OPC Server Licenses (to connect to Object Server)	N/A	005	\$25,870	Α
		Unlimited Client license	N/A	006	\$51,738	Α

Note 1: Includes automatic upgrades for 1 year.

Note 2: OpenBSILIC pricing should be quoted to all customers whose contract has lapsed for a period greater than 2 years.

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

Qty 2 - 10	<u>Discount</u>	Qty	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	Qty	<u>Discoun</u> t
2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Revision Date: Sept 30, 2014

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$3195 less 20% = \$2556

List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$2028 less 20% = \$1622.4

Note 6: Individual OPC SERVERS (DA, Alarm & Event) can be purchased to connect locally or remotely to the Object Server -Communications manager.

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OPENBSI UTILITIES SOFTWARE USER LICENSE (Cont.)

OpenBSILIC (PC 898)

MODEL	SPEC		ADDDO)/AI	ori cot	LIST	CAT
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
D		Object Server and OE Utility options	A Company	D	k regjesjevates	galar.
130		Alarm Paging (not available yet): (Not available on Dongle)				
		Requires Object Server or OE	N/A	0		Α
140		Web Toolkif Server (Requires Object Server purchase above or OE)				
		Requires Object Server or OE (Not available on Dongle)	N/A	001	\$3,770	Α
		Web Toolkit Connection (Note 6)				上连弄法
		1 Client license	N/A	001	\$860	Α
		5 Client ficenses	N/A	002	\$3,450	Α
150		10 Client licenses	N/A	003	\$6,899	Α
•		20 Client licenses	N/A	004	\$12,072	Α
		50 Client licenses	N/A	005	\$25,870	Α
		Unlimited Client licenses	N/A	006	\$51,738	Α

Note 1: Includes automatic upgrades for 1 year.

Note 2: OpenBSILiC pricing should be quoted to all customers whose contract has lapsed for a period greater than 2 years.

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

Qty	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	Qty	Discount	<u>Qty</u>	<u>Discoun</u> t
2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$3195 less 20% = \$2556

List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$2028 less 20% = \$1622.4

Note 6: This is the Quantity of I/O points supported by the Virtual ControlWave license above.

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OPENBSI UTILITIES SOFTWARE UPGRADE PLANS

OpenBSI is a range of software products for Microsoft WindowsTM that provides access to the entire range of Bristol ControlWave and 33xx products. It includes options for communications drivers, diagnostic, data collection tools and OPC & ODBC interfaces.

OpenBSISS

(PC 899)

Obenino						(*
MODEL	SPEC				LIST	
& SEG	SHEET	DESCRIPTION	APPROVAL	SELECT	PRICE	CAT.
10		OpenBSI Utilities CD (Note 6)	N/A		\$0	Α
- A		Programming Software		A	象的特殊	
30		ACCOL Workbench	地區特別 中形型在			
30		Compiles both Real & Protected Mode loads		\$999	Α	
	Mišā	ControlWave Designer with ACCOL III (Note 1)	THE WEST		jeline,	7757 T.
40		ControlWave programming with ACCOL III Function Block				
		Library	N/A		\$1,654	Α
		Virtual ControlWave for OpenEnterprise (Not yet				
170	计 图 第	available)	e i da e e e e e e e e e e e e e e e e e e			
1,0		Number of Licenses (Number of PCs licensed for Virtual				
		ControlWave)	N/A		\$631	Α
		Virtual ControlWave I/O Count per Virtual ControlWave	Maria Programa di Albanda (M.) Pilitar Anglado di Albanda (M.)	To see Carrie	et lavaeri Salare etc	rovelský paktery Presidenti
		License (Note 7)				
		(Requires OpenEnterprise Server)				igija
180	#1505	(Not yet available)				
		2000 I/O points	N/A	001	\$948	Α
[5000 I/O points	N/A	002	\$1,893	Α
		Unlimited I/O points	N/A	003	\$3,158	Α

Note 1: Includes automatic upgrades for 1 year.

Note 2: OpenBSISS pricing should only be quoted to customers whose support contract has lapsed for a period of 2 years or less

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

<u>Qty</u> 2 - 10	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	Qty	<u>Discount</u>	<u>Qty</u>	<u>Discoun</u> t
2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Revision Date: Sept 30, 2014

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$1317 less 20% = \$1053.6 List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$813 less 20% = \$650.4

Note 6: Order for software media CDs can only be accepted on the OPENBSILIC price book page. Orders for CDs from this price book page will not be accepted.

Note 7: This is the Quantity of I/O points supported by the Virtual ControlWave license above.

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OPENBSI UTILITIES SOFTWARE UPGRADE PLANS (Cont.)

OpenBSISS (PC 899)

MODEL	SPEC				LIST		
& SEG	SHEET		APPROVAL	SELECT	PRICE	CAT.	
- B		OpenBSI Networking Software		. В		i Artek urbi	
	建铁桶包	OpenBSI Network Edition	1975年1986年		ido ensidad	2.使激致。	
20		Includes all Basic OpenBSI Utilities for network setup, configuration, calibration, data viewing, file downloading & diagnostics. N/A					
	73 - 45 - 50	Harvester	1 51635				
80		Historical Data Collection Tools	N/A		\$415	Α	
	YESK	Security Vision	建筑建设				
90		Security Vision utility. Requires ControlWave Designer application function block P/N	N/A		\$466	А	
T C	WE STE	Communication Interfaces		÷†C ∴			
		Object Server (Not available on Dongle)					
110		Communications manager for OPC Server(s) supporting ControlWave and NW3000 products	N/A		\$345	Α	
		Object Server OPC Interface (Requires Object Server purchase above) (Note 6)					
		OPC Server License (to connect to Object Server)	N/A	001	\$345	Α	
400		5 OPC Server Licenses (to connect to Object Server)	N/A	002	\$1,378	Α	
120		10 OPC Server Licenses (to connect to Object Server)	N/A	003	\$2,757	Α	
Ī		20 OPC Server Licenses (to connect to Object Server)	N/A	004	\$4,829	Α	
Ī		50 OPC Server Licenses (to connect to Object Server)	N/A	005	\$10,349	Α	
. [Unlimited Client licenses	N/A	006	\$20,696	Α	

Note 1: Includes automatic upgrades for 1 year.

Note 2: OpenBSISS pricing should only be quoted to customers whose support contract has lapsed for a period of 2 years or less.

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

Qty	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	<u>Qty</u>	<u>Discoun</u> t
<u>Qty</u> 2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Revision Date: Sept 30, 2014

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$1317 less 20% = \$1053.6

List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$813 less 20% = \$650.4

Note 6: Individual OPC SERVERS (DA, Alarm & Event) can be purchased to connect locally or remotely to the Object Server Communications manager.

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OPENBSI UTILITIES SOFTWARE UPGRADE PLANS (Cont.)

MODEL & SEG	SPEC SHEET	DESCRIPTION	APPROVAL	SELECT	LIST PRICE	CAT.
D	17,35	Object Server and OE Utility options		, D		(144.18) T
130		Alarm Paging (not available yet)		**************************************		
130		Requires Object Server or OE	N/A	0		Α
140		Web Toolkit Server (Requires Object Server purchase above or OE)				
		Requires Object Server or OE	· N/A		\$1,552	Α
	presentation.	Web Toolkit Connection (Note 6)				12.12.12.13 12.12.12.13
		1 Client license	N/A	001	\$345	Α
		5 Client licenses	N/A	002	\$1,378	Α
150		10 Client licenses	N/A	003	\$2,757	Α
		20 Client licenses	N/A	004	\$4,829	A
	,*^	50. Client licenses	N/A	005	\$10,349	Α
		Unlimited Client licenses	N/A	006	\$20,696	Α

Note 1: Includes automatic upgrades for 1 year.

OpenBSISS

Note 2: OpenBSISS pricing should only be quoted to customers whose support contract has lapsed for a period of 2 years or less.

Note 3: The User License provides single PC system licensing up to the number specified. Enter the quantity for each segment and apply appropriate discount below. Segments with different quantities may have different discount calculations.

Qty 2 - 10	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	<u>Qty</u>	<u>Discount</u>	<u>Qty</u>	<u>Discoun</u> t
2 - 10	20%	11-20	30%	21-30	40%	31 + up	50%

Note 4: Multi-user discounts not available to ASPs.

Note 5: Order by line Segment Numbers, Example Line 1: Segment 20 = 03; \$1317 less 20% = \$1053.6
List only the segments numbers to be ordered, Example Line 2: Segment 80 = 03; \$813 less 20% = \$650.4

Note 6: This is the Quantity of I/O points supported by the Virtual ControlWave license above.

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Date	Changes				
4-Jan-11	Initial release of Consolidated Price book.				
25-Jan-11	Page 2 SEG 60 - changed OPC Data, Alarm & Event Server to None - This OPC Server is no longer available. Use Object Server.				
	OPC Server price changed from \$2,281 to \$0.				
31-May-11	Price change on segment 170 \$278 to \$574.				
4-Aug-11	4-Aug-11 Update prices on price pages for October 2011 price increase.				
28-Sep-12	Update prices on price pages for October 2012 price increase.				
5-Aug-13	Deleted: OpenBSI Utilities USB Dongle - OpenBSIHWD.				
30-Sep-13	Update prices on price pages for October 2013 price increase.				
15-Nov-13	Deleted: Seg 170 Virtual ControlWave for OpenEnterprise (page 1).				
13-1107-13	Seg 180 Virtual ControlWave I/O Count per Virtual ControlWave License (page 1).				
27-Jul-14	Updated Noted 2: OpenBSILIC (pages 1 to 3).				
27-00:-14	OpenBSISS (pages 4 to 6).				
30-Sep-14	Update prices on price pages for October 2014 price increase.				

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